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ABSTRACT

The study examined the experiences in the physical and social outdoor environment of low-income Chicano children living in an urban barrio, an urban housing project, and a rural setting. Subjects were 3 to 12 years of age, of any ethnic group, and of both sexes. Infants (those younger than 3 years) and adults (those older than 12 years) were coded only if their presence was related to the Chicano children's behavior. Data were collected in all three sites during the fall, winter, spring, and summer, each day of the week, and at two time intervals: early afternoon, 1:00-3:00; and late afternoon, 3:30-5:00. Three methods of coding naturalistic observations were used: the Behavioral Observation Instrument (BOI) gathered information on types of behavior exhibited by children, the settings in which these behaviors occurred, and the props used; the occupational mapping (OM) provided information on the movement and occupational patterns of children and adults in the outdoor environment; and the Social Interaction Observation Instrument (SIOI) provided data on the interaction of groups of two to four individuals. Observers walked through the neighborhoods according to an established route, recording information into a tape recorder. Findings included: the social language used in the urban barrio was English in 4 out of 5 interactions, 14.4% used Spanish, and 5.6% used a mixture of both languages; and showing, sharing, and cooperating or paying attention to other's behavior were the most observed behaviors. (NQ)

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CHICANO CHILDREN
and their
OUTDOOR ENVIRONMENTS

RC010062

CHICANO CHILDREN AND THEIR OUTDOOR ENVIRONMENT:

Barrio, Housing Project & Rural Settings

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***

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INTRODUCTION

This research project was initiated with the intent of contributing to the body of knowledge regarding Chicano children and their environment. It was conceived according to two assumptions. One assumption was that research on Chicano children has been conducted in laboratory settings according to variables manipulated by the researchers which does not always accurately portray the Chicano child. The other assumption was that alternative research methods such as the interview survey has sometimes yielded data which are open to question.

Research on Chicano children has tended to omit the first stage of a descriptive-correlational-experimental research paradigm, namely descriptive studies to provide baseline data on the focus of the research. This research project, therefore, attempts to provide some information on Chicano children and their outdoor environment which, to this point, has been lacking. The primary focus is upon Chicano children's experiences in the physical and social outdoor environment of their neighborhoods. Through our research effort we hope to contribute to a more complete understanding of the developmental process of Chicano children and, perhaps, identify new avenues for interpreting the Chicano child's environment.

We chose to study the outdoor environment of Chicano children based on a belief that all children invest a significant portion of their waking hours in the outdoor physical space of their neighborhoods. In this context, children gain knowledge about the world outside of "family" and their relationship to that world. Outdoors, children play, explore, manipulate materials, and socialize. They learn rules, roles, and test limits. Children develop expectations of selves, natural phenomena, and social institutions. They learn coping strategies appropriate to the social and physical settings they encounter.

Children may be supervised by adults or older children. Or they may be left alone to be supervised by peer pressure. This is part of their social environment. Their physical environment is oftentimes comprised of private yards, vacant lots, open fields, fences, abandoned cars, paygrounds, sidewalks, porches, and alleys.

Children's environment is critical to their development in two ways. First, it provides them with a testing ground in which they develop biologically as well as sociologically by interacting with their environment. Secondly, it is a vehicle by which culture is transmitted.

Since neighborhoods vary on a variety of dimensions, the variety of experiences available to children in these neighborhoods will vary accordingly.

GENERAL BACKGROUND

This study focuses on low income Chicano children and their outdoor environment. We use the word Chicano in agreement with McWilliams (1968) who wrote:

> Any phrase selected to characterize the Spanish-speaking will necessarily prove to be misleading, inaccurate or possibly libelous. If there is a generally accepted usage, it is to be found in the phrase "Spanish-speaking", but many people speak Spanish who cannot be identified with the Spanish-speaking group. Besides, the people who are generally Spanish-speaking are more Indian in racial origin, and perhaps in culture, than they are Spanish. "Latin American" is vague and euphemistic, "Spanish American" detracts from the importance of the Mexican and Indian heritage; while "Mexican-American" implies a certain condescension.

Or as former commissioner of the Equal Employment Opportunity Commission, Vicente T. Ximenes, is quoted by Briggs (1973) as saying, "The word 'Chicano' is being used by Mexican-Americans of the nation. The word is not new and, in fact, we used it to identify the people of the small rural villages many years ago. It is derived from the word 'Mexicano'. I favor its usage".

According to the 1970 census, Chicanos constitute 2.2% of the population of the United States, with eighty-seven percent living in the five southwestern states of Arizona, California, Colorado, New Mexico, and Texas. It is estimated that only fifteen percent live in small rural areas. Almost half (47%) of the Chicano population is under eighteen years of age; of this Chicano population, eighty percent live with both parents. Approximately half (46%) of Chicano families have children ages six or younger. Among Chicano families with children eighteen years of age or younger, fifty-three percent have three or more children. The rate of intermarriage among Chicanos is high; an estimated seventeen percent.

Chicanos have a rural origin, although between 1950-1960, Chicanos urbanized faster than any other group (Grebler et al., 1970). Such a rapid change in the environment of any group will, most likely, be accompanied by a period of adjustment or non-adjustment. Therefore, it appears likely that influences based on the activities of Chicano children in their outdoor environment can provide social scientists an insight into some of the facets of Chicano development.

REVIEW OF THE LITERATURE

Chicano Cultural Values

Research on Chicano values has been confounded by social scientists who rarely make a distinction between values based on ethnic heritage, customs and traditions, and values based on a culture of poverty. One thing is clear. Chicanos in Colorado are undergoing stress from a lack of support of their culture, a lack of ethnically-based political power, and poor representation in agencies of social control (Wignall and Kappin, 1967).

We will briefly examine the cultural values of Chicanos. The culture of the Chicanos has been characterized as having strong sex-role identities: women are..., and men are...; strong family membership-roles: authoritarian father, submissive mother, obedient children, extended family.

Grebler et al. (1970) hypothesize that the "machismo-hembra" concept, while still valued, is not practiced to a great extent. Similarly, the authoritarian family, common to the Chicano culture as described by Ramirez (1971), is changing.

Diaz Guerrero (1972) asserts that the father dominance and self-sacrificing mother is less common than traditional values would indicate. Grebler et al. (1970) hypothesize that family structure is indicative of change and stability in a culture. They found that while the extended family is traditionally valued among Chicanos, the nuclear family is becoming more prominent.

From these findings it appears that Chicano behavior, if not values, is tending to conform to the dominant culture.

Cultural Influences on Space Perception

Chicano and Anglo children have been found to differ in several aspects of conceptualizing their environment and space around them. Maurer and Baxter (1972) found that Anglos and Chicanos have different visual imaging of their neighborhood. Kershner (1972) characterized Chicanos as interested in the details of the space around them, while Anglos were characterized as being spatially remote.

A much cited difference between Chicanos and others is the field dependency of Chicanos (Ramirez, 1974; Kagan, 1974; Ramirez, Castaneda, and Heidel, 1974).

Members of different cultures will perceive the same events differently and will respond to them differently. Therefore, children of different cultures have different skills and expectations (Ramirez and Castaneda, 1970).

In turn, there may be a relationship between this and sex-typed behaviors, as the measure has been shown to vary across sexes (Witkin et al., 1962). As the test used to measure field dependence arose out of studies of perception, we might expect these differences to reflect themselves in use of space (Witkin et al., 1962).

This field dependence can be traced to child-rearing practice (Kagan, 1974; Madsen and Kagan, 1973). It is possible that the relatively strict child-rearing practices of Chicanos relates to this (Montain, Lambert, 1964).

Le Vine (1970) asserts that Chicano children demonstrate greater compliance and passivity due to the cultural emphasis on obedience to parental authority and inhibition of aggression. Also, Minturn and Lambert (1964) reported that Chicano mothers punished individual assertiveness more than Anglo mothers.

Social Learning

Society alters and shapes human character by natural unplanned processes, as well as planned educational processes (Cooley, 1925; Ellwood, 1922). Two natural processes are imitation and suggestion. Learning need not be "reinforced", it can be cognitive or vicarious (Bandura and Walters, 1963). Learning by imitation occurs when a child observes an admired model.

In terms of sex-role learning, "individuals learn through observation about the structure of the environment and the behavior of others. Through observational and cognitive processes, the young child soon comes to recognize his sexual identity or gender" (Mischel, 1970, p. 29). Studies indicate that the child's sex-role learning is influenced substantially by other children and adults, not just parents (Brim, 1958; Rosenberg and Sutton-Smith, 1968).

The amount of exposure the child has to a particular person influences the effect that person has on the process. For example, "the boy who sees his father as a highly salient person in his life" is more likely to develop sex appropriate behavior than one who does not (Mussen et al., 1963). In general, two factors influence the strength of identification: (1) frequency and strength of interaction with child, and (2) model's power over child (Mussen, 1963).

Similarly, learning by suggestion is affected by three factors: prestige of the source, duration and repetition of the suggestion, and the "volume" of the suggestion. Suggestion is the communication of an idea from one individual to another when that idea is accepted more or less uncritically or without any rational basis.

Yet, we must not overlook the fact that planned processes for shaping human character also occur. These processes, instruction and control, can be found operating in the child's daily world experiences. Instruction can be characterized as the learning of rules of games, learning specific skills, boy's or girl's club activities, etc. Learning by control encompasses the system of rewards and punishments, including being allowed to be a team captain and choosing team members, peer pressure, being excluded from some activities, etc.

We must remember, however, that these processes while to some extent are common to mankind, the values which they impart are culture specific. For example, "....most sex differences in social behavior, however, depend on the specific response patterns which are sex-typed in a particular culture, and are not universal entities" (Mischel, 1963, p. 30). Of course, these values are not independent, but must tie in with the rest of the cognitive structure, which is undoubtedly influenced by culture (Kohlberg, 1966; Greenfield and Bruner, 1966).

Theories of Play

Play is action. Through play children are prepared for life's activities (Groos, 1901). In playing, children are developing their neuro-muscular, sensory, and mental capabilities. In play, children begin to develop habits and attitudes that will assist them as adults to express their personality (Thomas, 1923).

Froebel (1906) believed that the kind of play children enjoy and the toys they found most attractive could be used to gain their attention in order to develop children's capabilities and knowledge. Freud (1959) believed that children distinguished play from reality, but used objects and situations from the real world to create a world of their own to repeat pleasant experiences, order or alter events at will.

In playing, children are exploring, manipulating, and investigating their environment stimulated by novelty, change, incongruity, conflict, complexity, and uncertainty (Berlyne, 1968). Berlyne also asserts that absolute novelty may be ignored as meaningless and abrupt change avoided. He contends that relative novelty which fits partly but not wholly with what has been experienced, change from what has gone before, incompatabilities in a present pattern, or uncertainty due to discrepancies alert the individual.

Smart and Smart (1973) think of play as a process of differentiation and integration. As the child gets older, we expect simple activities, once enacted for their own sake, to become integrated into more complex activities. That is, simple forms of activity, once an end in themselves, become the means to other, higher order, ends. For example, running and playing with a ball becomes the means through which a formal game, such as baseball, becomes enacted. From younger children we might expect a lot of sensorimotor play and parallel play, where from older children we expect more games and such with true interaction.

The classic sex differences in behavior lead us to expect more active play from boys, and more active games. From girls, we expect more sedentary activities. Sedentary activities include observing and formal information gathering and expression (reading, drawing, etc.) (Lehman and Witty, 1927). Interestingly, girls seemed to show less seasonal variation in play than boys (Lehman and Witty, 1927). Girls are expected to be engaged in activities nearer to home than boys (Lehman and Witty, 1927; Saegert and Hart, 1976). If we look at prop use differences, we expect boys to use more building materials, transportation toys, bikes, and balls. Girls are expected to use more books, paper, and so on, things relating to the home or children, and in general, fewer props (Fagot, B.I., Patterson, G.R., 1969;

Hartley et al., 1952).

Piaget assumed play to be the main basis of civilization and remarkably alike for all people. His theory supports the concept that a child learns, understands and achieves intellectual mastery through interaction with his environment. The child's experience with the social and physical environment develops the nervous system. As experiences with the environment increase, the child will develop a more accurate representation of reality. As the child becomes more socially adapted, (s)he needs to resort less to symbolic substitution and distortion of reality. Intellectual development, according to Piaget (1966), occurred due to the continued active interplay between accommodation and assimilation. Accommodation was any adjustment an organism has to make to the external world in order to assimilate information. Assimilation refers to any process whereby the organism changes the information it receives in the process of making it part of the organism's know-how. Piaget (1966) thought play was the pure assimilation of changing incoming information to suit the individual's requirements. Piaget integrated his ideas about play into his theory of cognitive development. He proposed that symbolic or make-believe play characterized the period of representational intelligence from ages two through seven, and that it served to organize thinking in terms of images and symbols mastered. This stage was also the verbal pre-logical stage in which children began to see causal connections.

The importance of dramatic or symbolic play is emphasized throughout the literature, especially for younger children. Young children, through fantasy and symbolic play, can be expected to act out the roles of important people in their world (Smart and Smart, 1973). As children get older and less egocentric, we expect more socio-dramatic play; that is, play requiring cooperation between children, ability to take the role of another, and understand how another is feeling and reacting.

In terms of the environment, the rich varied environment is thought critical for providing opportunities necessary for building mental structures (Smart and Smart, 1973). In particular, Hartley et al. (1952) feel the environmental materials available play a major part in guiding symbolic play. There exists a stereotype in the literature that the poverty child lacks play materials which provide visual and tactile stimulation, and that motor development is not fostered due to a lack of things to ride and climb (Smart and Smart, 1973).

Johnson (1935), however, reported that in studying behavior of children with differing amounts of toys (props) he observed the following results:

1. Children with fewer toys had greater amounts of social contacts,
2. Large numbers of play equipment discouraged social contact and encouraged individual activities, and
3. Swings, climbing apparatus, etc., were often used in fantasy play.

Past Findings on Children's Play Outdoors

Three studies, all reported in the EDRA 5 Journal, will be the primary source of this material. One, Coates and Bussart (1974) is on the outdoor activities of thirty-five children living in a low to moderate income housing project in a small industrial city. Interviews, aerial photographs, and map-drawing tasks were used to gather the data. Another, Marcus (1974) is an observational study of a 300 unit, low-rise housing development in San Francisco. The last, Aiello, Gordon, and Farrell (1974), is an observational study of children's outdoor activities in a suburban residential area. (In none of the studies was the ethnicity of children observed discussed.)

Location

Generally, Marcus (1974) found eighty-four percent of play in interior courtyards, twelve percent on peripheral sidewalks, and four percent on parking lots. Looking in more detail, sixty percent of play was on concrete foot paths and other concrete areas (includes twelve percent on perimeter walks, four percent on parking lots). Explanations for this include the fact that paved areas were generally easily supervisable and near home (for younger kids), and the fact that certain predominant activities required a hard surface. On grassy areas, nineteen percent of activities were observed, play areas accounted for fifteen percent of the behavior, and "other" areas (trees, sheds) accounted for six percent. Grassy areas were, in a sense, under-utilized, considering they comprised forty-four percent of the area.

In the Aiello et al. study, it was found that thirty-nine percent of the children were located in front yards, thirty-three percent in back yards, eighteen percent in streets, five percent in car parts, three percent in natural areas (public spaces) not adjoining a house lot, and two percent in natural areas adjoining the back of a house lot.

Group Size

The mean group size in the Aiello et al. study was 1.8. Groups of one involved forty-nine percent of the children; groups of two, a third of the children; and groups of three; eleven percent of the children. Only 6.5% of the children were in groups larger than three. If we look at the age grouping, we see twenty percent of the groups comprising children four years of age or younger, sixty-four percent children ages five through eleven, and six percent children ages twelve through fourteen. Sixteen percent of groups consisted of children of mixed ages. In general, with sex composition included, children seemed to prefer children their own age and sex group. Interestingly, younger children exhibited the most solitary activity.

Activity

Activity in the Marcus study was broken down as follows: running and walking, almost forty percent; sitting/standing/watching, about twenty percent; ball games, about ten percent; playing on play equipment, about five percent; playing on bicycles and other wheeled toys, less than five percent; and "other", almost thirty percent. In the Aiello et al. study, activity was broken down as follows: reading was .4%; eating was 1.3%; conversing was 4.6%; and observing was 14.8%. Behaviors categorized as manipulative comprised 13.3% of the observed activity, while sports and ball activities were 11.4%; large muscle activities, including wrestling, climbing, jumping, were 11%; and walking was 11.2%. Wheeled vehicle activity comprised 20.6% of observed activity, and water-related play, 3.3%.

Age Differences

Coates and Bussard (1972), who focused on space use in terms of public/private, and near/far from home dimensions, found that children ages four through five are restricted to those areas directly controlled by the family (public and private) and spaces not controlled, but within sight of the child's home. After age six, territory expands to include "group-private" areas and "section-public" areas.

Sex Differences

Sex differences reported by Marcus (1974) include the very interesting finding that in a population assumed to be fifty percent male and fifty percent female, fifty-seven percent of the children observed were males, while only forty-three percent were females. After breaking activity into four categories: play (what the layman would call play), circulation, passive activities, and "other", sex differences were examined. Of the boys observed, sixty percent were engaged in "play" versus forty-three percent of the girls. On the other hand, thirty-nine percent of the girls' behavior comprised circulation, while for boys the proportion was only twenty percent of the total. The proportions of each sex engaged in passive behavior and miscellaneous were about equal. A significantly higher proportion of boy's play (almost fifty percent) involved an object (ball, stick), while this term of play comprised only eight percent of girl's behavior.

Other differences include the greater use of fixed/semi-fixed materials (sheds, benches) by girls than by boys - thirty-nine percent versus nineteen percent. Interestingly, girls engaged in bicycling and rollerskating over ten percent of the time, while boys did these under five percent of the time.

Prop Use

Marcus (1974) reports very little use of available play equipment, dirt or sand. Most play was on hard surfaces and utilized props such as rollerskates, balls, bicycles, and so on. Aiello et al. (1974) report prop use in greater detail. Children in the suburban area investigated, used play or game equipment 8.1% of the time, fixed/semi-fixed materials (cars, buildings, trees) about thirteen percent of the time, water-play devices (pool, sprinkler) 3.5% of the time, and a variety of natural materials 10.7% of the time. All in all, 58.3% of the children were actively engaged in prop use.

METHODOLOGY

In developing the methodology for investigating low-income Chicano children we worked with the following assumptions:

1. There is a dearth of non-obtrusive observational data on Chicano children, and
2. Research data compiled on Chicano children fall into two categories:
    a. Laboratory observations with variables manipulated by the researchers, and
    b. Interviewing procedures eliciting information from parents of children.

Therefore, in developing this research methodology we decided to look at children in a natural setting, the outdoor environment, and attempted to:

1. Avoid intrusion into children's activity in the neighborhood as much as possible,
2. Capture relevant information at a moment in time, and
3. Organize the information in a meaningful way.

Population

The population that is investigated by this research effort are low-income Chicano children living in three distinct neighborhood settings.

For purpose of this study subjects (S's) were children perceived to be three to twelve years of age, of any ethnic group, and of both sexes. Children younger than three years were considered infants or toddlers and not coded, except as props, while individuals older than twelve years were coded as adults. Infants and adults were coded only if their presence was related to the subject population's behavior.

Three sites for investigation were selected according to six criteria. Two sites were urban areas and one site was a rural area. The criteria for site selection were:

1. Contain a minimum of 100 S's,
2. Include a minimum of fifty family units,
3. Include an area of at least three square city-blocks in the urban area, and one square mile in a rural setting,
4. Be inhabited by a majority of low-income residents,
5. Contain at least fifty percent Chicano population, and

6. Comprise an organic neighborhood.

Additionally, the rural site needed to have demonstrable historical and environmental features particular to the Chicano culture of the Southwest.

Sampling

Data were collected in all three sites during seasonal periods (fall, winter, spring, and summer) all seven days of the week and at two time intervals: early afternoon, 1:00-3:00 p.m.; and late afternoon, 3:30-5:00 p.m.

Potential Generalizability

Although all S's observed were not Chicano, the majority of the population is Chicano, so there is a potential for generalizability to the Chicano population in Colorado. Due to regional differences and degree of bilingual-biculturalism of Colorado Chicanitos, researchers should be careful to extrapolate interpretation of this data for other Chicano children.

Instrumentation and Variables

Three methods of coding naturalistic observations were utilized.

One, the Behavioral Observation Instrument (BOI) was developed primarily to gather information on types of behavior exhibited by children, the settings in which these behaviors occurred, and the props or manipulanda used. A second method used in conjunction with the BOI was occupational mapping (OM). Using this process provides information on the movement and occupational patterns of children and adults in the outdoor environment. The third method, Social Interaction Observation Instrument (SIOI) was used to collect data on the interaction of groups of two to four individuals comprised of the S's population.

Demographic information collected in these three methods was related to the type of information sought. In the OM process only age and sex were collected. In the BOI process age, sex along with variables pertaining to adult presence, social and age configurations, and ethnicity were encoded. The SIOI format included the above variables as well as information relating to the role of children and relative size.

Data Collection Procedures

Utilizing the BOI and OM methods simultaneously, a pair of observers walked through the two urban neighborhoods according to an established route. The coder using the BOI recorded information into a tape recorder and immediately upon finishing the data collection encoded information onto a coding sheet while listening to the recorded data. The coder using the OM method encoded information onto maps as (s)he was walking through the neighborhood. Due to the sparseness of population in the rural site, these functions were combined and performed by one coder simultaneously. Additionally, due to the distance traveled in the rural site, the observer did not walk, but rode through the designated route.

Coders using the SIOI walked through the designated neighborhood and selected one group of children to be observed, and described the interactions observed onto a tape recorder for a five-minute segment. If an adult intruded into the children's group recording of information was stopped until the adult left the group. If the group of children dissipated or the adult remained with the group, coding was stopped and a new group was found.

For a more comprehensive description of the methodology, the reader is referred to the appendices which include instruments and coding manuals.

URBAN BARRIO

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URBAN BARRIO

Site Description

This barrio is part of one of the largest neighborhoods in the city and one of the oldest. The information on population and housing is based upon summary statistics provided by the City Planning Commission on the larger neighborhood.

The population of this barrio decreased rapidly in the 1950's, and has been declining at a moderate rate since. There has been a decline in the population of Anglos, offset by a gain in the population of Chicanos. Currently (1975), Chicanos represent over sixty percent of the population of this area. The proportion of other minorities accounts for a small (3%) but growing part of the population.

Middle-aged persons and young adults constitute the largest age categories. Compared to overall city, the neighborhood has a disproportionally large number of both infants and elderly persons. About one-fifth of the population falls within the age range of five through seventeen. Females make up over half of the population of the neighborhood (54%).

The median educational attainment is and has been one of the lowest in the city - less than tenth grade. A relatively large percentage of the adult population has had only an elementary education, or no formal schooling.

The number of unemployed persons has been and is relatively large. Of those employed, about forty percent are employed in commercial establishments, about forty percent in industrial establishments, and sixteen percent in public and quasi-public agencies.

Income is extremely low (3/5 of the city median). Thirty-three percent of the families have incomes below $4,000 per year, while ninety-six percent have incomes below $5,000 per year. The median yearly income for all residents is $3,663, for families it is $5,691.

Housing: This is one of the larger neighborhoods in the city in terms of total housing stock. Following a substantial decline in the total stock during the 1950's, there was no change during the 1960's. Most of the stock was built before 1940, and a large decrease in this stock was exactly offset by conversions of new units built especially during the 1960's. Nearly fifteen percent of the stock lacks some or all plumbing, which is worse than all but a few city neighborhoods. Overcrowding is and has been only slightly worse than in the city as a whole. More than two-fifths of all homes have no automobiles.

More than two-thirds of the residents are renters, a large increase since 1960. Owner occupants have declined to one-fourth. The vacancy rate is and has been far above the city rate.

The average value of single-family homes is exactly half the city mean. Three-fifths of these homes are worth less than $10,000, and virtually none are worth more than $20,000. The average rent is only three-fifths of the city average. More than three-fourths of all rental units are priced below $80 per month, and there are no high-rent units.

The area studied is predominantly single-family residential, with a few multi-family units. The entire west border of the barrio is industrial, composed of light industry, the Santa Fe Railroad, and a junkyard.

This barrio represents a fairly cohesive, organic whole. It is bordered to the north by a major thoroughfare; to the west by industry; to the south by industry plus some housing; and to the east by fairly high-rise multi-unit housing for senior citizens, by a large television repair shop, an upholstery shop, and by a school.

Behavioral Observations

Child Age: While the exact age of the child was recorded by the observers, children were later grouped into three groups: children three through five years of age, six through nine years of age, and ten to twelve years of age. The most observed group was the middle one, followed fairly closely by the youngest group, with the fewest children observed in the oldest group. See Figure 1.

FIGURE 1:

Age Category

```
I
****************** (1,651)
I  3-5 years
I
********************** (2,070)
I  6-9 years
I
******* (599)
I  10-12 years
I
* (6)
I  Other
I.........I.........I.........I.........I.........I
0     1,000     2,000     3,000     4,000     5,000
FREQUENCY
```

Child Ethnicity: As one of our criteria for neighborhood selection was that it have over fifty percent Chicanos, we were pleased to find that 65.1% of the groups were all Chicano, with the remainder evenly split between all non-Chicano groups, and mixed ethnic groups. See Figure 2.

FIGURE 2:

Ethnicity

```
I
**************************** (2,817)
I  All Chicano
I
**** (307)
I  Mixed Ethnic
I
**** (341)
I  All Non-Chicano
I
********** (861)
I  Other
I.........I.........I.........I.........I.........I
0       1,000     2,000     3,000     4,000     5,000
FREQUENCY
```

Group Size: The most common group size is two, followed by three and by one, with a mean of 2.75. Those three sizes account for about seventy-five percent of all children. The complete distribution is seen in Figure 3. In this figure, size "ten" includes groups larger than or equal to ten. See Figure 3.

Configuration of Age: The most common age configuration is groups of same age children, followed by mixed age children and by children alone. See Figure 4.

FIGURE 3:

Children and Adults Group Size

```
I
************************ (932)
I  One
I
********************************* (1,29[illegible])
I  Two
I
************************* (968)
I  Three
I
************** (524)
I  Four
I
****** (199)
I  Five
I
***** (148)
I  Six
I
** (51)
I  Seven
I
** (59)
I  Eight
I
** (26)
I  Nine
I
* (5)
I  Ten
I.........I.........I.........I.........I.........I
0        400       800      1,200     1,600     2,000
FREQUENCY
```

FIGURE 4:

Social Configuration, Age

```
I
************************ (939)
I  Child Alone
I
********************************** (1,319)
I  Same Age Children
I
**************************** (1,099)
I  Mixed Age Children
I
***** (155)
I  One Child, One Adult
I
*************** (575)
I  Children and Adults
I
******* (239)
I  Missing
I.........I.........I.........I.........I.........I
0        400       800      1,200     1,600     2,000
FREQUENCY
```

Configuration of Sex: As there are more males outdoors, it is not surprising that groups of males are more common than groups of females. It is interesting, however, that there are more mixed-sex groups than groups entirely of males. See Figure 5.

Setting: Far and away, the most popular setting is the public sidewalk, accounting for twenty-five percent of the children, followed by front porches, back yards, and front yards. See Figure 6.

FIGURE 5:

Social Configuration, Sex

```
I
*************************************** (1,565)
I  Males Only
I
************************** (1,027)
I  Females Only
I
***************************************** (1,634)
I  Both Males and Females
I
*** (98)
I  Missing
I
* (2)
I  Other
I.........I.........I.........I.........I.........I
0        400       800      1,200     1,600     2,000
FREQUENCY
```

FIGURE 6

Setting

```
I
*********** (    383)
I  FRONT YARD
I
****** (    188)
I  SIDE YARD
I
****************** (    670)
I  BACK YARD
I
****************** (    688)
I  FRONT PORCH
I
*** (     91)
I  BACK PORCH
I
****** (    183)
I  PRIVATE SIDEWALK
I
**************************** (   1103)
I  PUBLIC SIDEWALK
I
******* (    237)
I  STREET
I
********** (    354)
I  APRON
I
****** (    201)
I  ALLEY
I
*** (     67)
I  PUBLIC OPEN SPACE
I
*** (     95)
I  PLAY GROUND
I
** (     49)
I  ACROSS SETTINGS
I
* (     12)
I  OTHER
I
* (      5)
I  MISSING
I
I.........I.........I.........I.........I.........I
0        400       800       1200      1600      2000
FREQUENCY
```

Props: Props of some sort are involved in 63.2% of all behaviors. The most popular ones are large muscle toys, fixed/semi-fixed materials, incidental materials, and natural-inanimate materials. See Figure 7.

Behaviors: Far and away, the most common behavior is moving through space, followed by observing, socializing, and large muscle activity. See Figure 8.

Time of Day: Observations were conducted during both the early (12:30-2:30 p.m.) and late afternoons (3:00-5:00 p.m.). The time of the day made strikingly little difference in the results. There were slightly more children observed during the early afternoon than the late afternoon (44% vs. 56%), but the expected age differences between early and late did not bear out. An interesting finding, however, is that front porches and back yards (fairly private) were used more early, while public sidewalks were used more late. See Figure 9.

In keeping with greater sidewalk use during the late afternoon periods, and less private space use, there was more activity in terms of large muscle activity and moving through space. See Figure 10.

FIGURE 7:

Props

```
I
********************************************* (  1592)
I  NO PROPS
I
********* (   317)
I  FIXED,SEMI-FIXED
I
******** (   282)
I  INANIMATE MATERIALS
I
**** (   130)
I  ANIMATE MATERIALS
I
***** (   150)
I  PLAY EQUIPMENT
I
******** (   290)
I  INCIDENTAL MATERIALS
I
******* (   251)
I  EDUCATIONAL MATERIAL
I
**** (   129)
I  ADULT TOOLS
I
******* (   223)
I  SYMBOLIC TOYS
I
*** (    62)
I  SMALL MUSCLE TOYS
I
***************** (   609)
I  LARGE MUSCLE TOYS
I
*** (    70)
I  CLOTHING
I
****** (   201)
I  FOOD
I
* (    16)
I  MIXED
I
I
* (     4)
I MISSING
I
I.........I.........I.........I.........I.........I
0        400       800      1200      1600      2000
FREQUENCY
```

FIGURE 8:

Behaviors

```
           I
        1  **** (    100)
           I  FORMAL INFO GATHERIN
           I
        2  ***************** (    665)
           I  SOCIALIZATION
           I
        3  ******* (    246)
           I  GAMES
           I
        4  ***** (    155)
           I  WORK
           I
        5  ***** (    175)
           I  SYMBOLIC PLAY
           I
        6  ********* (    320)
           I  MANIPULATING MATERIA
           I
        7  ************* (    471)
           I  LARGE MUSCLE ACTIVIT
           I
        8  ******************************** (   1296)
           I  MOVE THRU SPACE
           I
        9  ******************* (    777)
           I  OBSERVING
           I
       10  *** (     90)
           I  EATING
           I
       11  ** (     26)
           I  OTHER
           I
    BLANK  * (      1)
(MISSING)  I
           I
    BLANK  * (      0)
 (     4)
(MISSING)  I
           I
           I.........I.........I.........I.........I.........I
           0        400       800       1200      1600      2000
           FREQUENCY

MEAN           6.347      STD ERR          .040      MEDIAN          7.522
STD DEV        2.651

VALID CASES     4321      MISSING CASES      5
```

FIGURE 9: ***

Time of Day

```
I
********************************** (18.9%)
I  Back Yard - Early
I
********************* (12.8%)
I  Back Yard - Late
I
********************************* (18.6%)
I  Front Porch - Early
I
************************* (13.8%)
I  Front Porch - Late
I
**************************************** (22.9%)
I  Sidewalk - Early
I
************************************************ (27.7%)
I  Sidewalk - Late
I.......I........I........I........I........I........I
0       5        10       15       20       25       30
PERCENTAGE
```

```
*     p≤.01
**    p≤.001
***   p≤. 0001
```

FIGURE 10: (***)

<u>Time of Day</u>

```
I
**************** (9.1%)
I  Large Muscle - Early
I
******************* (12.4%)
I  Large Muscle - Late
I
********************************************** (26.9%)
I  Moving Through Space - Early
I
******************************************************* (32.4%)
I  Moving Through Space - Late
I.....I.........I.........I.........I.........I.........I.......I
0     5        10        15        20        25        30       35
PERCENTAGE
```

<u>Child Sex</u>: There seems to be a small but significant (***) difference in age configuration between sexes. Males are alone somewhat more (24.4% vs. 20.5%), and females are in groups of children and adults somewhat more (17.0% vs. 23.4%). There are no sex differences, however, in the form of supervision (direct-indirect-child). There is a significant (***) relationship between the sex of the child and the sex of the supervising adult. About an equal proportion of males and females are supervised by males, and males and females together, whereas twice as many females than males are supervised by female adults. See Figure 11.

FIGURE 11: (***)

Child/Adult Sex - Supervision

```
I
******************
I Male Supervisor over Males
I
***************
I Male Supervisor over Females
I
*********
I Male & Female Supervisors over Males
I
**********
I Male & Female Supervisors over Females
I
********************
I Female Supervisor over Males
I
*****************************
I Female Supervisor over Females
I..........I.......I.........I.........I
0          5      10        15        20
PERCENTAGE
```

Space use is relatively similar by the two sexes. Females have a tendency to use front porches, a relatively private space, more (18.4% vs. 14.2%, ***), but also have a tendency to use sidewalks, a relatively public space, more (27.6% vs. 24.0%, ***). Males use streets (6.3% vs. 4.5%, ***), aprons (9.4% vs. 6.6%, ***), and alleys (5.6% vs. 3.5%, ***) more, all fairly public places.

Prop use is also similar, although males use significantly (***) more props (65.0% vs. 60.8%). Females use more play equipment and educational materials; boys use more natural (inanimate) material, symbolic toys, and far more large muscle toys. See Figure 12.

FIGURE 12: (***)

Child Sex - Prop Use

```
I
*************** (7.5%)
I  Inanimate Materials - Males
I
************ (5.1%)
I  Inanimate Materials - Females
I
*** (2.5%)
I  Play Equipment - Males
I
*********** (4.4%)
I  Play Equipment - Females
I
*********** (4.6%)
I  Educational Materials - Males
I
*************** (7.5%)
I  Educational Materials - Females
I
************** (6.3%)
I  Symbolic Toys - Males
I
**** (3.6%)
I  Symbolic Toys - Females
I
*********************************** (17.1%)
I  Large Muscle Toys - Males
I
********************** (10.3%)
I  Large Muscle Toys - Females
I.........I.........I.........I.........I
0         5         10        15        20
PERCENTAGE
```

There are only two appreciable differences in the behavior of males and females. Females socialize more (18.1% vs. 13.5%, ***).

There are no differences in work or symbolic play. With regard to the latter, the reader may recall that boys use more symbolic toys, implying there is a qualitative rather than a quantitative difference in symbolic play between males and females.

Age Differences: There is a distinct relationship between the age of the child and the size of group (s)he is in. The older children are alone far more often than the younger ones. Groups of two are most popular with children of all ages, and younger children are found in groups of three or more more often than older children. See Figure 13.

If we look at the configuration of age on those children in groups, we see that the middle group of children, ages six through nine, tend to be in groups with same age children more than other age groups. On the other hand, children of all ages spend a similar proportion of time in groups of mixed age children. Children of all ages spend a similar percentage of time alone as with one adult. However, the youngest group, ages three through five, spends twice as much time with other adults and children than do members of the two older groups, which are similar to one another. See Figure 14.

FIGURE 13: (***)

Group Size

```
I
********************** (18.3%)
I  Alone - 3-5 years
I
************************** (23.0%)
I  Alone - 6-9 years
I
*********************************** (29.2%)
I  Alone - 10-12 years
I
************************************ (30.1%)
I  Two - 3-5 years
I
************************************* (30.6%)
I  Two - 6-9 years
I
*************************************** (33.1%)
I  Two - 10-12 years
I
***************************** (24.1%)
I  Three - 3-5 years
I
************************ (22.7%)
I  Three - 6-9 years
I
*********************** (20.8%)
I  Three - 10-12 years
I
********************************** (27.8%)
I  Four or More - 3-5 years
I
*************************** (23.7%)
I  Four or More - 6-9 years
I
******************* (16.9%)
I  Four or More - 10-12 years
I....I.....I.....I.....I.....I.....I.....I.....I
0    5    10    15    20    25    30    35    40
PERCENTAGE
```

FIGURE 14: (***)

Group Size Configuration

```
I
*********************************** (28.2%)
I  Same Age Children - 3-5 years
I
******************************************** (36.0%)
I  Same Age Children - 6-9 years
I
************************************** (30.0%)
I  Same Age Children - 10-11 years
I
********************************** (26.9%)
I  Mixed Age Children - 3-5 years
I
********************************* (26.8%)
I  Mixed Age Children - 6-9 years
I
*********************************** (27.3%)
I  Mixed Age Children - 10-12 years
I
******** (5.0%)
I  One Child, One Adult - 3-5 years
I
*** (3.1%)
I  One Child, One Adult - 6-9 years
I
** (2.9%)
I  One Child, One Adult - 10-12 years
I
************************** (20.2%)
I  Children & Adults - 3-5 years
I
************** (10.5%)
I  Children & Adults - 6-9 years
I
************* (10.0%)
I  Children & Adults - 10-12 years
I......I.....I.....I.....I.....I.....I.....I.....I
0      5    10    15    20    25    30    35    40
PERCENTAGE
```

An extremely strong finding involves the relationship between the age of the child and the sex configuration of the group. As children get older, the tendency to be in groups of males only increases. However, the tendency for children to be in groups of females only remains similar. To balance the greater number of all male groups as children get older, there are fewer groups of both males and females. In other words, females, as they get older, continue to enjoy same sex and mixed sex goups in similar proportions, while males increasingly prefer same sex groups as they get older. There is, however, a further factor entering into this. That is, the ratio of males to females is much higher for the oldest group. See Figures 15 and 16.

As the reader will probably remember from the discussion of the relationship betweeen child age and age configuration, the youngest group of children are supervised far more than the other two (older) groups, which are supervised similarly. The ratio of two to one between the amount of supervision the youngest group receives and the older groups receive holds for both direct and indirect adult supervision. See Figure 17.

FIGURE 15: (***)

Sex Configuration

```
I
****************************** (30.0%)
I  Males Only - 3-5 years
I
************************************* (36.9%)
I  Males Only - 6-9 years
I
********************************************************
I  Males Only - 10-12 years                           (56.2%)
I
*********************** (22.7%)
I  Females Only - 3-5 years
I
*************************** (26.9%)
I  Females Only - 6-9 years
I
******************** (19.9%)
I  Females Only - 10-12 years
I
*********************************************** (47.3%)
I  Males & Females - 3-5 years
I
************************************ (36.2%)
I  Males & Females - 6-9 years
I
************************ (23.9%)
I  Males & Females - 10-12 years
I....I....I....I....I....I....I....I....I....I....I....I
0    5   10   15   20   25   30   35   40   45   50   55
PERCENTAGE
```

FIGURE 16: (***)

Age Configuration

```
I
******************************************** (54.7%)
I  Males - 3-5 years
I
************************************* (45.3%)
I  Females - 3-5 years
I
********************************************* (56.0%)
I  Males - 6-9 years
I
************************************ (44.0%)
I  Females - 6-9 years
I
*******************************************************
I  Males - 10-12 years                                    (68.2%)
I
************************** (31.8%)
I  Females - 10-12 years
I...I...I...I...I...I...I...I...I...I...I...I...I...I...I
0   5  10  15  20  25  30  35  40  45  50  55  60  65  70
PERCENTAGE
```

FIGURE 17: (***)

Direct/Indirect Supervision

```
I
************************************** (18.5%)
I  Direct Supervision - 3-5 years
I
********************* (10.9%)
I  Direct Supervision - 6-9 years
I
******************** (9.8%)
I  Direct Supervision - 10-12 years
I
****************** (7.0%)
I  Indirect Supervision - 3-5 years
I
*** (3.0%)
I  Indirect Supervision - 6-9 years
I
** (2.9%)
I  Indirect Supervision - 10-12 years
I.........I.........I.........I.........I
0         5         10        15        20
PERCENTAGE
```

A look at figure 18 reveals very clearly that it is the female adults who are providing the additional supervision for the youngest group. Males, and males and females together supervise all age groups almost equally. In fact, not only do females supervise the younger children particularly more, they also supervise the older children appreciably less than adult males. See Figure 18.

Looking at space use, a clear pattern emerges. Younger children utilize more of the private spaces around the home (yards, porches) and older children use more of the public spaces (streets, walks). All children utilize the private walks about equally. Refer to Table 1 (***) at the end of this section.

FIGURE 18: (***)

Adult Supervision

```
I
************ (6.0%)
I  Male Supervision - 3-5 years
I
********** (4.3%)
I  Male Supervision - 6-9 years
I
************* (6.7%)
I  Male Supervision - 10-12 years
I
********************** (16.0%)
I  Female Supervision - 3-5 years
I
************ (6.5%)
I  Female Supervision - 6-9 years
I
** (2.0%)
I  Female Supervision - 10-12 years
I
*** (3.1%)
I  Male & Female Supervision - 3-5 years
I
** (2.7%)
I  Male & Female Supervision - 6-9 years
I
*** (3.4%)
I  Male & Female Supervision - 10-12 years
I.........I.........I.........I
0         5        10        15
PERCENTAGE
```

Prop use is somewhat more difficult to explicate than is space use, but there are significant differences. Younger children use fixed/semi-fixed materials, play equipment, and symbolic toys more, while older children use educational materials, adult tools, and large muscle toys more. Refer to Table 2 at the end of this section.

If we look at the behavior of the children we see that the younger children engage in more symbolic play, more manipulating, more observing, and interestingly, more large muscle activity materials (interesting, considering they use the fewest large muscle toys). Older children participate in more organized games, more work, and appreciably more moving through space. Refer to Table 3 at the end of this section.

Ethnicity: Non-Chicano children are alone more than Chicano children. While groups of two are everyone's favorite, Chicano children are found in them slightly more than non-Chicano children. Groups of three and four are equally common with everyone, but groups of five, involving 123 Chicanos, are non-existant among non-Chicanos. On the other hand, groups larger than five are equally common for everyone. Groups of mixed ethnicity are most common in the three to five year-old range, which stands to reason, as in larger groups there would seem to be a greater probability of having mixed ethnicity. However, as stated before, groups larger than five are more or less equally distributed among all groups. Refer to Table 4 at the end of this section.

In terms of configuration of sex, Chicanos and non-Chicanos distribute themselves similarly between groups of males only, females only, and males and females together. However, mixed ethnic groups are overwhelmingly mixed sex also. This results in part from the fact that mixed ethnic groups rarely involve a child alone. See Figure 19.

Chicanos are supervised only minimally more than non-Chicanos. For both groups, indirect and direct adult supervision are similar. However, Chicanos are supervised to a small extent (2.3%) by children acting in the role of adult supervisors. Mixed ethnic groups are supervised more than either above groups, but this may result, in part, from the fact that there are almost no "children alone" in this category. See Figure 20.

In terms of the sex of the supervising adults, the difference between mixed ethnic and non-mixed ethnic groups seems to be in terms of increased supervision by female adults. Supervision by males is slightly higher for non-Chicanos and mixed ethnic groups, while supervision by groups of males and females is essentially the same. Refer to Table 5 at the end of this section.

FIGURE 19: (***)

Sex Configuration

```
I
************************************* (37.4%)
I  Males Only - All Chicano
I
*********************** (22.9%)
I  Males Only - Mixed
I
*************************************** (39.3%)
I  Males Only - All Non-Chicano
I
************************** (26.2%)
I  Females Only - All Chicano
I
******************* (19.3%)
I  Females Only - Mixed
I
************************** (25.8%)
I  Females Only - All Non-Chicano
I
************************************ (36.4%)
I  Mixed Sex - All Chicano
I
**********************************************************
I  Mixed Sex - Mixed                                (57.8%)
I
*********************************** (34.8%)
I  Mixed Sex - All Non-Chicano
I....I....I....I....I....I....I....I....I....I....I....I
0    5    10   15   20   25   30   35   40   45   50   55
PERCENTAGE
```

FIGURE 20: (***)

Supervision - Ethnicity

```
I
******************* (17.6%)
I  All Chicano
I
*********************** (23.2%)
I  Mixed
I
***************** (15.5%)
I  All Non-Chicano
I....I....I....I....I....I....I
0    5   10   15   20   25   30
PERCENTAGE
```

Mixed ethnic groups utilize front yards, back yards, and back porches most, and side yards, front porches, public walks, and aprons least. Non-Chicanos use side yards and back yards more than Chicanos, as well as streets. Chicanos use the back porch, public sidewalks, aprons, and alleys more than other groups, while there seems to be no question different ethnic groups use spaces differently, no clear pattern emerges from the data. Refer to Table 6 at the end of this section.

There seems to be little difference in prop use between groups. All Chicano groups use props more than other groups (64.5% vs. 61.9% for mixed groups, and 58.2% for non-Chicanos). Chicanos use more animate materials (3.3% vs. .3% mixed, and 1.2% for non-Chicano). All non-Chicanos use more play equipment (5.9% vs. 3.3% Chicanos, and 4.2% for mixed), and mixed groups use the most symbolic toys (8.5% vs. 5.3% Chicanos, and 4.1% for non-Chicanos).

While differences in prop use are fairly minimal, differences in behavior are substantial. Mixed groups are engaged in more formal information gathering/expression, way more socializing, more symbolic play, less manipulating materials, and way less moving through space. Chicano groups play more games than other groups, while non-Chicano groups hold the distinction of observing more than other groups. Refer to Table 7 at the end of this section.

Supervision: There is a significant difference in groups of various sex configurations. Groups of males receive the least supervision, groups of females the next most, and groups of males and females together more than any other group. This result is partially confounded by including the sex of the adult in the group, so groups with adults are somewhat more likely to be mixed sex. See Figure 21. The increase described is in all forms of supervision.

Female adults engage in more direct adult supervision, while male aduts, and males and females together engage in more indirect adult supervision. See Figure 22.

FIGURE 21: (***)

Supervision - Sex Configuration

```
I
********** (8.2%)
I  Male
I
**************** (15.7%)
I  Female
I
********************************* (32.6%)
I  Mixed
I....I....I....I....I....I....I....I
0    5   10   15   20   25   30   35
PERCENTAGE
```

FIGURE 22: (***)

Direct/Indirect Supervision

```
I
*************************************************** (72.9%)
I  Direct Supervision - Males
I
************************************************* (69.2%)
I  Direct Supervision - Males & Females
I
********************************************************
I  Direct Supervision - Females                         (79.1%)
I
******************* (27.1%)
I  Indirect Supervision - Males
I
********************* (30.8%)
I  Indirect Supervision - Males & Females
I
**************** (20.9%)
I  Indirect Supervision - Females
I......I......I......I......I......I......I......I......I
0      10     20     30     40     50     60     70     80
PERCENTAGE
```

Settings which are most frequently supervised include streets (36.9%), private sidewalks (21.3%), front yards (19.2%), side yards (18.1%), back yards (19.9%), and front porches (19.8%). Children moving across settings are most supervised of all, (60.7%), most of which is indirect. Alleys (10.5%), public open spaces (11.9%), and back porches (12.2%) are the least supervised areas. In some sense, alleys and public open spaces are good places for children to be when they desire the sort of privacy which comes with being away from adults. The perceived danger of the street is no dout reflected in the high degree of supervision there. Refer to Table 8 at the end of this section.

Prop use which is most supervised includes fixed/semi-fixed materials (36.9%, probably cars), play equipment (35.6%, much of it in a day care center), animate material (27.9%), and no-prop use (23.1%). Among the lowest supervised are small muscle toys (6.8%), educational materials (7.8%), inanimate materials (9.5%), large muscle toys (11.3%), and symbolic toys (12.8%). The group of props which fit in the least with the last group are the large muscle toys, as the rest involve relatively quiet activities, which adults probably feel secure in leaving their children along to engage in. Refer to Table 9 at the end of this section.

Behavior most heavily supervised includes socializing, work, eating, large muscle activity, moving through space, and observing. Behaviors supervised the least include formal information gathering/expression, symbolic play, manipulating, and games. This, no doubt, is also related to which individuals (e.g., young, females) are supervised most, and what activities they engage in. Refer to Table 10 at the end of this section.

Adult Sex: Males, interestingly, seem to spend a higher proportion of their time supervising the smaller groups than do females. Males and females together spend a similar proportion of time supervising groups of three as either sex alone, and a higher proportion of time supervising groups of three and five than either sex alone. Groups larger than five are shared fairly evenly with female adults. See Figure 23.

Males spend a greater proportion of their time supervising all male groups than females do supervising all female groups. On the other hand, females spend a greater proportion of their time supervising mixed sex groups than do males. See Figure 24.

FIGURE 23: (***)

Adult Sex Supervision, Group Size

```
I
********************************* (29.6%)
I  Male - Group Size:  2
I
************************** (23.1%)
I  Female - Group Size:  2
I

I  Male & Female - Group Size:  2
I
******************************** (28.6%)
I  Male - Group Size:  3
I
*************************** (24.7%)
I  Female - Group Size:  3
I
************************ (21.7%)
I  Male & Female - Group Size:  3
I
*************************** (24.9%)
I  Male - Group Size:  4
I
******************* (16.9%)
I  Female - Group Size:  4
I
********************************** (30.8%)
I  Male & Female - Group Size:  4
I
********* (7.5%)
I  Male - Group Size:  5
I
*************** (13.9%)
I  Female - Group Size:  5
I
***************************** (25.8%)
I  Male & Female - Group Size:  5
I
*********** (9.3%)
I  Male - Group Size:  6 or more
I
************************ (21.4%)
I  Female - Group Size:  6 or more
I
************************* (21.6%)
I  Male & Female - Group Size:  6 or more
I....I....I....I....I....I....I....I
0    5   10   15   20   25   30   35  (PERCENTAGE)
```

FIGURE 24: (***)

Adult Sex Supervision, Child Sex

```
I
************************************** (53.2%)
I  Male Adult - Male Children
I
********************************** (46.8%)
I  Male Adult - Male & Female Children
I
************************** (36.0%)
I  Female Adult - Female Children
I
********************************************** (64.0%)
I  Female Adult - Male & Female Children
I.......I......I......I......I......I......I......I
0      10     20     30     40     50     60     70
PERCENTAGE
```

Looking at the proportion of their time adults of each sex configuration spend supervising various settings, we see that front yards are supervised most by females and females and males together. Side yards are supervised most by males, back yards are supervised most by males and females together, followed by males. Public sidewalks are supervised most by females, followed by males. Streets and aprons are supervised similarly by males and males and females together, and least by females. Refer to Table 11 at the end of this section.

The prop use each sex group of adults spends the greatest amount of time supervising is as follows: Males spend the greatest proportion of time supervising children using large muscle props and symbolic toys; females spend the greatest proportion supervising children using play equipment (much of it in a day care center), and food. Males and females together spend the greatest proportion of time with children using fixed/semi-fixed materials (probably cars), and adult tools. Use of other materials is supervised about equally. Refer to Table 12 at the end of this section.

Behaviors males supervise most include socializing and games. Behaviors females supervise most include large muscle activity (although males supervise more children using large muscle materials), moving through space, symbolic play, and eating. Females spent significantly less time supervising children observing than other groups of adults. Males and females together supervised work proportionally higher than others There are here some fairly surprising, and possibly contradicting findings (e.g., large muscle activity). Refer to Table 13 at the end of this section.

Group Size: The simplest way of summarizing the findings relating group size to setting prop and behavior is to say that it makes a significant (***) difference, but there is, at present, no suitable way of describing the relationship.

Age Configuration: Groups of only males have a slightly higher likelihood of being in same age groups than do female groups. Groups composed of males and females are also likely to be mixed in age, compared to groups of only one sex. See Figure 25.

FIGURE 25: (***)

<u>Sex Configuration</u>

```
I
************************************ (35.5%)
I  Male - Same Age
I
******************** (19.5%)
I  Male - Mixed
I
******************************** (31.2%)
I  Female - Same Age
I
******************** (19.4%)
I  Female - Mixed
I
******************************* (30.1%)
I  Male & Female - Same Age
I
**************************************** (39.5%)
I  Male & Female - Mixed
I....I....I....I....I....I....I....I....I
0    5   10   15   20   25   30   35   40
PERCENTAGE
```

Looking at groups without adults, front yards, back yards, back porches, aprons, alleys, and public open spaces are more popular places for children in groups than for children alone. Side yards, private walks, and public sidewalks are most popular with a child alone, or same age children. Streets are most popular with groups of same age children, while front porches are equally popular for all children. Refer to Table 14 at the end of this section.

Props are used more by children alone and same age children than by mixed age children, or children with adults. Fixed/semi-fixed, incidental materials, and adult tools are used most by children alone. Inanimate materials, play equipment, educational materials, and large muscle toys are used somewhat more by same age children. Symbolic toys are used a bit more by mixed age children. Refer to Table 15 at the end of this section.

It is difficult to assess the significance of findings relating age configuration to behavior, as certain behaviors (games, socializing) are more or less out of the question for a child alone. However, children alone manipulate materials more, move through space more, observe more, and engage in less large muscle activity. Children in mixed age, and same age groups behave fairly similarly. Refer to Table 16 at the end of this section.

Sex Configuration: Groups of males only are found in alleys and public open spaces more than other groups, especially groups of males and females together, and less on front porches than other groups; groups of females are found more on back porches than others and less in front yards, streets, and aprons. Males and females together spend much more time in back yards than others, and way less time on public sidewalks. Refer to Table 17 at the end of this section.

Male groups use more props than female groups who use slightly more props than mixed sex groups. Male groups use more adult tools, symbolic toys, way more large muscle props, and less fixed/semi-fixed materials and foods. Female groups use more educational materials, and fewer inanimate materials. Males and females together use the most play equipment, and the fewest incidental materials. Refer to Table 18 at the end of this section.

Groups of males play more games, work more, and manipulate more than others, but engage in less formal information gathering, less socializing, and less eating. Females socialize somewhat more, play the fewest games, and do the least work. Mixed groups socialize most, engage in the most large muscle activity, and move through space way less than male or female groups. Refer to Table 19 at the end of this section.

Setting: Settings where there is the most prop use include streets, back yards, and side yards. Settings where there is the least prop use include back porches, front porches, private walks, and front yards. Settings where there is the highest proportion of fixed/semi-fixed feature use are streets (cars, aprons, back porches, railings), and front porches.

Settings with the greatest use of natural inanimate materials include back and side yards, alleys, aprons, and public open spaces. Settings highest in use of animate materials are front and back yards, back porches, aprons, alleys and public walks. Children moving across settings use the most incidental materials, followed by children in side yards, front porches, alleys, and public and private sidewalks. Educational materials are used most on public walks (books carried from school?), followed by front and back porches. Children moving across settings have the most adult tools, followed by children on private walks and front and side yards. Symbolic toys are found most on side yards, aprons, back yards, front porches, and public open spaces. Alleys, front porches and front yards are where most small muscle toys are used. Public open spaces are the location of most large muscle toys, followed by streets, public walks, alleys, aprons and side and front yards. Most food is found on front porches, public walks, and alleys. Refer to Table 20 at the end of this section.

Far and away the setting with the most formal information gathering/expression is the back porch. Socializing is also most common on back porches, followed by front porches, alleys, and side yards. Work is most common on side yards, alleys, and private walks. Games are most popular on public open spaces, followed by aprons, streets, and front yards. Front yards, front porches, and side yards are the most common locations for symbolic play. Manipulating material is most common in back yards, followed by side yards and aprons. Large muscle activity predominates for these children moving across settings, children in yards, and children on aprons. Moving through space, as might be expected, is most common on public walks, alleys, streets, private walks, and across settings. Front porches, back porches, and front yards are places where children observe the world around them. The front porch is where eating usually occurs outdoors. Refer to Table 21 at the end of this section.

Props: The activities which least frequently involve props are moving through space, observing, and socializing. Behaviors most connected with fixed/semi-fixed equipment are large muscle activity, observing, and socializing. Far and away, the greatest use for inanimate natural material is manipulating, followed by large muscle activity, games, and work. Animate natural materials are manipulated and used with large muscle activities. Play equipment is mostly connected with large muscle activity. Incidental materials are used most for work and manipulating. As we would expect, educational materials are used mostly for formal information gathering/expression and are also carried throug space (e.g., home from school). Also as expected, adult tools are mostly used for work. Symbolic toys are used for symbolic play and a bit for manipulating. Small muscle toys are used for manipulating and for games. Large muscle toys (e.g., balls) are used heavily for games, and a good bit for moving through space (e.g., wheeled toys) and large muscle activities. Clothing, interestingly, is used for formal information gathering/expression, and for manipulating and symbolic play. Food, not surprisingly is generally eated. Refer to Table 22 at the end of this section.

```
* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   AGECAT                                                        BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

               SETTING
         COUNT I
       ROW PCT IFRONT YA SIDE YAR BACK YAR FRONT PO BACK POR PRIVATE  PUBLIC S STREET   APRON    ALLEY      ROW
       COL PCT IRD       D        D        RCH      CH       SIDEWALK IDEWALK                            TOTAL
               I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
AGECAT         -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             1 I   169  I    90  I   300  I   295  I    38  I    61  I   350  I    64  I   106  I    38  I   1650
 3 TO 5 YEARS  I  10.2  I   5.5  I  18.2  I  17.9  I   2.3  I   3.7  I  21.2  I   3.9  I   6.4  I   2.3  I   38.2
               I  44.2  I  48.1  I  14.9  I  42.9  I  41.8  I  33.3  I  31.8  I  27.0  I  29.9  I  18.9  I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             2 I   175  I    82  I   305  I   304  I    40  I    96  I   581  I   110  I   200  I   105  I   2068
 6 TO 9 YEARS  I   8.5  I   4.0  I  14.7  I  14.7  I   1.9  I   4.6  I  28.1  I   5.3  I   9.7  I   5.1  I   47.9
               I  45.8  I  43.9  I  45.7  I  44.2  I  44.0  I  52.5  I  52.8  I  46.4  I  56.5  I  52.2  I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             3 I    38  I    15  I    63  I    89  I    13  I    26  I   170  I    63  I    48  I    58  I    597
 10 TO 12 YEARS I   6.4  I   2.5  I  10.6  I  14.9  I   2.2  I   4.4  I  28.5  I  10.6  I   8.0  I   9.7  I   13.8
               I   9.9  I   8.0  I   9.4  I  12.9  I  14.3  I  14.2  I  15.4  I  26.6  I  13.6  I  28.9  I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
        COLUMN     382      187      668      688       91      183     1101      237      354      201     4315
         TOTAL     8.9      4.3     15.5     15.9      2.1      4.2     25.5      5.5      8.2      4.7    100.0


               SETTING
         COUNT I
       ROW PCT IPUBLIC O PLAY GRO ACROSS S OTHER        ROW
       COL PCT IPEN SPAC UND      ETTINGS              TOTAL
               I    11  I    12  I    13  I    14  I
AGECAT         -I--------I--------I--------I--------I
             1 I    22  I    84  I    27  I     6  I   1650
 3 TO 5 YEARS  I   1.3  I   5.1  I   1.6  I    .4  I   38.2
               I  32.8  I  88.4  I  55.1  I  50.0  I
              -I--------I--------I--------I--------I
             2 I    33  I    11  I    21  I     5  I   2068
 6 TO 9 YEARS  I   1.6  I    .5  I   1.0  I    .2  I   47.9
               I  49.3  I  11.6  I  42.9  I  41.7  I
              -I--------I--------I--------I--------I
             3 I    12  I     0  I     1  I     1  I    597
 10 TO 12 YEARS I   2.0  I     0  I    .2  I    .2  I   13.8
               I  17.9  I     0  I   2.0  I   8.3  I
              -I--------I--------I--------I--------I
        COLUMN      67       95       49       12     4315
         TOTAL     1.6      2.2      1.1       .3    100.0
RAW CHI SQUARE =   277.89962 WITH    26 DEGREES OF FREEDOM.  SIGNIFICANCE =       0
CRAMER'S V =    .17945
CONTINGENCY COEFFICIENT =    .24598
LAMBDA (ASYMMETRIC) =    .03916 WITH AGECAT   DEPENDENT.          =        0 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =    .01611
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .03284 WITH AGECAT   DEPENDENT.          =   .01471 WITH SETTING  DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .02032
```

TABLE 1 ***

TABLE 2 ***

```
* * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
   AGECAT                                                              BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *   PAGE  1 OF  1

                   PROP
            COUNT  I
          ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU   ROW
          COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS        TOYS   SCLE TOY SCLE TOY  TOTAL
                   I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
AGECAT     --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 1 I   153  I   116  I    41  I   104  I    96  I    48  I    29  I   116  I    30  I   183  I  1026
  3 TO 5 YEARS     I  14.9  I  11.3  I   4.0  I  10.1  I   9.4  I   4.7  I   2.8  I  11.3  I   2.9  I  17.8  I  37.6
                   I  48.3  I  41.1  I  31.5  I  69.3  I  33.1  I  19.1  I  22.5  I  52.0  I  48.4  I  30.2  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 2 I   125  I   131  I    71  I    39  I   159  I   165  I    71  I    85  I    26  I   305  I  1321
  6 TO 9 YEARS     I   9.5  I   9.9  I   5.4  I   3.0  I  12.0  I  12.5  I   5.4  I   6.4  I   2.0  I  23.1  I  48.4
                   I  39.4  I  46.5  I  54.6  I  26.0  I  54.8  I  65.7  I  55.0  I  38.1  I  41.9  I  50.3  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 3 I    39  I    35  I    18  I     7  I    35  I    38  I    29  I    22  I     6  I   118  I   380
  10 TO 12 YEARS   I  10.3  I   9.2  I   4.7  I   1.8  I   9.2  I  10.0  I   7.6  I   5.8  I   1.6  I  31.1  I  13.9
                   I  12.3  I  12.4  I  13.8  I   4.7  I  12.1  I  15.1  I  22.5  I   9.9  I   9.7  I  19.5  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN      317      282      130      150      290      251      129      223       62      606     2727
            TOTAL     11.6     10.3      4.8      5.5     10.6      9.2      4.7      8.2      2.3     22.2    100.0


                   PROP
            COUNT  I
          ROW PCT  ICLOTHING FOOD     MIXED       ROW
          COL PCT  I                             TOTAL
                   I    11  I    12  I    13  I
AGECAT     --------I--------I--------I--------I
                 1 I    27  I    75  I     8  I  1026
  3 TO 5 YEARS     I   2.6  I   7.3  I    .8  I  37.6
                   I  38.6  I  37.3  I  50.0  I
                  -I--------I--------I--------I
                 2 I    31  I   109  I     4  I  1321
  6 TO 9 YEARS     I   2.3  I   8.3  I    .3  I  48.4
                   I  44.3  I  54.2  I  25.0  I
                  -I--------I--------I--------I
                 3 I    12  I    17  I     4  I   380
  10 TO 12 YEARS   I   3.2  I   4.5  I   1.1  I  13.9
                   I  17.1  I   8.5  I  25.0  I
                  -I--------I--------I--------I
           COLUMN       70      201       16     2727
            TOTAL      2.6      7.4       .6    100.0

RAW CHI SQUARE =   199.56550 WITH    24 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .19129
CONTINGENCY COEFFICIENT =    .26113
LAMBDA (ASYMMETRIC) =    .09388 WITH AGECAT   DEPENDENT.           =        0 WITH PROP     DEPENDENT.
LAMBDA (SYMMETRIC) =    .03743
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .03700 WITH AGECAT   DEPENDENT.           =   .01575 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .02210
```

```
* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   AGECAT                                                           BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                 BEHAVIOR
         COUNT  I
         ROW PCT IFORMAL I SOCIALIZ GAMES     WORK      SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING       ROW
         COL PCT INF GAT-E ING                           PLAY     TING     SCLE ACT OUGH SPA G                      TOTAL
                I       1 I       2 I       3 I       4 I       5 I       6 I       7 I       8 I       9 I      10 I
AGECAT  --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 1 I     39 I    262 I     40 I     18 I     85 I    147 I    217 I    422 I    365 I     38 I   1648
  3 TO 5 YEARS     I    2.4 I   15.9 I    2.4 I    1.1 I    5.2 I    8.9 I   13.2 I   25.6 I   22.1 I    2.3 I   38.2
                   I   39.0 I   39.4 I   16.4 I   11.6 I   48.6 I   45.9 I   46.1 I   32.6 I   47.0 I   42.2 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 2 I     50 I    317 I    146 I     95 I     82 I    137 I    192 I    662 I    334 I     47 I   2069
  6 TO 9 YEARS     I    2.4 I   15.3 I    7.1 I    4.6 I    4.0 I    6.6 I    9.3 I   32.0 I   16.1 I    2.3 I   47.9
                   I   50.0 I   47.7 I   59.8 I   61.3 I   46.9 I   42.8 I   40.8 I   51.2 I   43.0 I   52.2 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 3 I     11 I     86 I     58 I     42 I      8 I     36 I     62 I    209 I     77 I      5 I    598
  10 TO 12 YEARS   I    1.8 I   14.4 I    9.7 I    7.0 I    1.3 I    6.0 I   10.4 I   34.9 I   12.9 I     .8 I   13.9
                   I   11.0 I   12.9 I   23.8 I   27.1 I    4.6 I   11.2 I   13.2 I   16.2 I    9.9 I    5.6 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN       100      665      244      155      175      320      471     1293      776       90     4315
            TOTAL       2.3     15.4      5.7      3.6      4.1      7.4     10.9     30.0     18.0      2.1    100.0


                 BEHAVIOR
         COUNT  I
         ROW PCT IEMOTIONA   ROW
         COL PCT IL EXPRES  TOTAL
                I      11 I
AGECAT  --------I--------I
                 1 I     15 I   1648
  3 TO 5 YEARS     I     .9 I   38.2
                   I   57.7 I
                  -I--------I
                 2 I      7 I   2069
  6 TO 9 YEARS     I     .3 I   47.9
                   I   26.9 I
                  -I--------I
                 3 I      4 I    598
  10 TO 12 YEARS   I     .7 I   13.9
                   I   15.4 I
                  -I--------I
           COLUMN        26    4315
            TOTAL        .6   100.0

RAW CHI SQUARE =   204.31300 WITH    20 DEGREES OF FREEDOM.  SIGNIFICANCE =       0
CRAMER'S V =    .15387
CONTINGENCY COEFFICIENT =    .21262
LAMBDA (ASYMMETRIC) =    .03428 WITH AGECAT   DEPENDENT.         =        0 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =    .01462
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .02564 WITH AGECAT   DEPENDENT.         =    .01272 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .01701
```

TABLE 3 ***

```
* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
   ETHNICIT                                                    BY  GPSIZE     GROUP SIZE CHILDREN AND ADULTS
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE   1 OF   1

                       GPSIZE
              COUNT  I
              ROW PCT I                                                                                              ROW
              COL PCT I                                                                                             TOTAL
                      I       1  I       2  I       3  I       4  I       5  I       6  I       7  I       8  I       9  I      10  I
ETHNICIT     ---------I----------I----------I----------I----------I----------I----------I----------I----------I----------I----------I
                    1 I     669  I     871  I     594  I     320  I     123  I     101  I      36  I      29  I      14  I       0  I    2757
  ALL CHICANO         I    24.3  I    31.6  I    21.5  I    11.6  I     4.5  I     3.7  I     1.3  I     1.1  I      .5  I       0  I    81.3
                      I    86.1  I    82.9  I    79.1  I    73.7  I    79.9  I    84.9  I    78.3  I    65.9  I   100.0  I       0  I
                     -I----------I----------I----------I----------I----------I----------I----------I----------I----------I----------I
                    2 I       3  I      90  I      78  I      73  I      31  I       7  I       4  I      15  I       0  I       2  I     303
  MIXED ETHNIC        I     1.0  I    29.7  I    25.7  I    24.1  I    10.2  I     2.3  I     1.3  I     5.0  I       0  I      .7  I     8.9
                      I      .4  I     8.6  I    10.4  I    16.8  I    20.1  I     5.9  I     8.7  I    34.1  I       0  I   100.0  I
                     -I----------I----------I----------I----------I----------I----------I----------I----------I----------I----------I
                    3 I     105  I      90  I      79  :      41  I       0  I      11  I       6  I       0  I       0  I       0  I     332
  ALL NON-CHICANO     I    31.6  I    27.1  I    23.8  I    12.3  I       0  I     3.3  I     1.8  I       0  I       0  I       0  I     9.8
                      I    13.5  I     8.6  I    10.5  I     9.4  I       0  I     9.2  I    13.0  I       0  I       0  I       0  I
                     -I----------I----------I----------I----------I----------I----------I----------I----------I----------I----------I
              COLUMN        777       1051        751        434        154        119         46         44         14          2     3392
              TOTAL        22.9       31.0       22.1       12.8        4.5        3.5        1.4        1.3         .4         .1    100.0

RAW CHI SQUARE =   213.94244 WITH    18 DEGREES OF FREEDOM.  SIGNIFICANCE =        0
CRAMER'S V =    .17758
CONTINGENCY COEFFICIENT =    .24358
LAMBDA (ASYMMETRIC) =    .00315 WITH ETHNICIT DEPENDENT.           =   .00641 WITH GPSIZE   DEPENDENT.
LAMBDA (SYMMETRIC) =    .0057;
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .06013 WITH ETHNICIT DEPENDENT.           =   .02167 WITH GPSIZE   DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .03186

NUMBER OF MISSING OBSERVATIONS =   934
```

70

TABLE 4 ***

TABLE 5 *

```
* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   ETHNICIT                                                     BY  ADSEX     ADULT SEX
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                  ADSEX
          COUNT  I
        ROW PCT  INO ADULT MALES ON FEMALES  MALES AN   ROW
        COL PCT  IS        LY       ONLY     D FEMALE  TOTAL
                 I      0 I      1 I      2 I      3 I
ETHNICIT    --------I--------I--------I--------I--------I
              1  I  2280  I   114  I   230  I    70  I  2694
  ALL CHICANO    I  84.6  I   4.2  I   8.5  I   2.6  I  81.4
                 I  82.0  I  73.5  I  79.0  I  84.3  I
                -I--------I--------I--------I--------I
              2  I   229  I    23  I    39  I     6  I   297
  MIXED ETHNIC   I  77.1  I   7.7  I  13.1  I   2.0  I   9.0
                 I   8.2  I  14.8  I  13.4  I   7.2  I
                -I--------I--------I--------I--------I
              3  I   272  I    18  I    22  I     7  I   319
  ALL NON-CHICANO I  85.3 I   5.6  I   6.9  I   2.2  I   9.6
                 I   9.8  I  11.6  I   7.6  I   8.4  I
                -I--------I--------I--------I--------I
         COLUMN     2,81      155      291       83     3310
          TOTAL     84.0      4.7      8.8      2.5    100.0

RAW CHI SQUARE =     17.97033 WITH     6 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0063
CRAMER'S V =    .05210
CONTINGENCY COEFFICIENT =    .07348
LAMBDA (ASYMMETRIC) =        0 WITH ETHNICIT DEPENDENT.          =        0 WITH ADSEX    DEPENDENT.
LAMBDA (SYMMETRIC) =        0
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .00404 WITH ETHNICIT DEPENDENT.         =   .00414 WITH ADSEX    DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .00409

NUMBER OF MISSING OBSERVATIONS =  1016
```

TABLE 6 ***

```
* * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * *
   ETHNICIT                                                     BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                   SETTING
            COUNT  I
          ROW PCT  IFRONT YA SIDE YAR BACK YAR FRONT PO BACK POR PRIVATE  PUBLIC S STREET   APRON    ALLEY      ROW
          COL PCT  IRD      D        D        RCH      CH       SIDEWALK IDEWALK                              TOTAL
                   I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
ETHNICIT   --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 1 I   238  I   135  i   418  I   486  I    57  I   125  I   716  I   124  I   239  I   154  I  2812
  ALL CHICANO      I   8.5  I   4.8  I  14.9  I  17.3  I   2.0  I   4.4  I  25.5  I   4.4  I   8.5  I   5.5  I  81.3
                   I  79.1  I  79.9  I  73.6  I  84.1  I  82.6  I  83.3  I  84.1  I  74.3  I  86.0  I  87.0  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 2 I    36  I     9  I    79  I    37  I     9  I    13  I    62  I    18  I    12  I    14  I   307
  MIXED ETHNIC     I  11.7  I   2.9  I  25.7  I  12.1  I   2.9  I   4.2  I  20.2  I   5.9  I   3.9  I   4.6  I   8.9
                   I  12.0  I   5.3  I  13.9  I   6.4  I  13.0  I   8.7  I   7.3  I  10.8  I   4.3  I   7.9  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 3 I    27  I    25  I    71  I    55  I     3  I    12  I    73  I    25  I    27  I     9  I   341
  ALL NON-CHICANO  I   7.9  I   7.3  I  20.8  I  16.1  I    .9  I   3.5  I  21.4  I   7.3  I   7.9  I   2.6  I   9.9
                   I   9.0  I  14.8  I  12.5  I   9.5  I   4.3  I   8.0  I   8.6  I  15.0  I   9.7  I   5.1  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN      301      169      568      578       69      150      851      167      278      177     3460
            TOTAL      8.7      4.9     16.4     16.7      2.0      4.3     24.6      4.8      8.0      5.1    100.0


                   SETTING
            COUNT  I
          ROW PCT  IPUBLIC O PLAY GRO ACROSS S OTHER        ROW
          COL PCT  IPEN SPAC UND      ETTINGS               TOTAL
                   I    11  I    12  I    13  I    14  I
ETHNICIT   --------I--------I--------I--------I--------I
                 1 I    33  I    77  I     7  I     3  I  2812
  ALL CHICANO      I   1.2  I   2.7  I    .2  I    .1  I  81.3
                   I  76.7  I  81.1  I  63.6  I 100.0  I
                  -I--------I--------I--------I--------I
                 2 I     0  I    15  I     3  I     0  I   307
  MIXED ETHNIC     I     0  I   4.9  I   1.0  I     0  I   8.9
                   I     0  I  15.8  I  27.3  I     0  I
                  -I--------I--------I--------I--------I
                 3 I    10  I     3  I     1  I     0  I   341
  ALL NON-CHICANO  I   2.9  I    .9  I    .3  I     0  I   9.9
                   I  23.3  I   3.2  I   9.1  I     0  I
                  -I--------I--------I--------I--------I
           COLUMN       43       95       11        3    3460
            TOTAL      1.2      2.7       .3       .1   100.0

RAW CHI SQUARE =     92.95420 WITH    26 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .11590
CONTINGENCY COEFFICIENT =    .16175
LAMBDA (ASYMMETRIC) =          0 WITH ETHNICIT DEPENDENT.          =   .00652 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =    .00522
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .02221 WITH ETHNICIT DEPENDENT.          =   .00620 WITH SETTING  DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .00969
```

TABLE 7 ***

```
* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
   ETHNICIT                                                          BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                  BEHAVIOR
           COUNT  I
         ROW PCT  IFORMAL I SOCIALIZ GAMES     WORK      SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING       ROW
         COL PCT  INF GAT-E ING                            PLAY    TING     SCLE ACT OUGH SPA G                      TOTAL
                  I     1  I      2  I      3  I      4  I      5  I      6  I      7  I      8  I      9  I     10  I
ETHNICIT  --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                1 I    64  I   474  I   113  I    99  I   121  I   198  I   289  I   813  I   555  I    73  I
  ALL CHICANO     I   2.3  I  16.8  I   4.0  I   3.5  I   4.3  I   7.0  I  10.3  I  28.9  I  19.7  I   2.6  I   2814
                  I  75.3  I  79.4  I  92.6  I  83.2  I  79.1  I  83.9  I  78.3  I  82.8  I  80.2  I  81.1  I   81.3
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                2 I    16  I    91  I     2  I    10  I    21  I    15  I    39  I    57  I    49  I     6  I
  MIXED ETHNIC    I   5.2  I  29.7  I    .7  I   3.3  I   6.9  I   4.9  I  12.7  I  18.6  I  16.0  I   2.0  I    306
                  I  18.8  I  15.2  I   1.6  I   8.4  I  13.7  I   6.4  I  10.6  I   5.8  I   7.1  I   6.7  I    8.8
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                3 I     5  I    32  I     7  I    10  I    11  I    23  I    41  I   112  I    88  I    11  I
  ALL NON-CHICANO I   1.5  I   9.4  I   2.1  I   2.9  I   3.2  I   6.7  I  12.0  I  32.8  I  25.8  I   3.2  I    341
                  I   5.9  I   5.4  I   5.7  I   8.4  I   7.2  I   9.7  I  11.1  I  11.4  I  12.7  I  12.2  I    9.9
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN        85      597      122      119      153      236      369      982      692       90      3461
           TOTAL       2.5     17.2      3.5      3.4      4.4      6.8     10.7     28.4     20.0      2.6     100.0


                  BEHAVIOR
           COUNT  I
         ROW PCT  IEMOTIONA   ROW
         COL PCT  IL EXPRES   TOTAL
                  I    11  I
ETHNICIT  --------I--------I
                1 I    15  I   2814
  ALL CHICANO     I    .5  I   81.3
                  I  93.8  I
                 -I--------I
                2 I     0  I    306
  MIXED ETHNIC    I     0  I    8.8
                  I     0  I
                 -I--------I
                3 I     1  I    341
  ALL NON-CHICANO I    .3  I    9.9
                  I   6.3  I
                 -I--------I
          COLUMN        16     3461
           TOTAL        .5    100.0

RAW CHI SQUARE =    96.53287 WITH    20 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .11809
CONTINGENCY COEFFICIENT =    .16473
LAMBDA (ASYMMETRIC) =          0 WITH ETHNICIT DEPENDENT.              =   .01372 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =    .01088
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .02315 WITH ETHNICIT DEPENDENT.          =   .00712 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .01089
```

TABLE 8 ***

```
* * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
    SUPER     SUPERVISION OF CHILD OR GROUP                          BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  2

                  SETTING
            COUNT I
          ROW PCT IFRONT YA SIDE YAR BACK YAR FRONT PO BACK POR PRIVATE  PUBLIC S STREET   APRON    ALLEY      ROW
          COL PCT IRD      D        D        RCH      CH       SIDEWALK IDEWALK                              TOTAL
                  I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
SUPER    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                0 I    298 I    145 I    514 I    531 I     79 I    144 I    897 I    140 I    280 I    179 I   3336
  NO SUPERVISION  I    8.9 I    4.3 I   15.4 I   15.9 I    2.4 I    4.3 I   26.9 I    4.2 I    8.4 I    5.4 I   80.4
                  I   80.8 I   81.9 I   80.1 I   80.2 I   87.8 I   78.7 I   83.9 I   63.1 I   82.4 I   89.5 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                1 I     51 I     13 I     91 I     98 I      3 I     24 I    122 I     65 I     50 I     11 I    562
  DIRECT AD SUPV  I    9.1 I    2.3 I   16.2 I   17.4 I     .5 I    4.3 I   21.7 I   11.6 I    8.9 I    2.0 I   13.5
                  I   13.8 I    7.3 I   14.2 I   14.8 I    3.3 I   13.1 I   11.4 I   29.3 I   14.7 I    5.5 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                2 I     10 I     13 I     30 I     27 I      6 I      6 I     36 I     13 I      8 I      8 I    188
  INDIRECT AD SUPV I    5.3 I    6.9 I   16.0 I   14.4 I    3.2 I    3.2 I   19.1 I    6.9 I    4.3 I    4.3 I    4.5
                  I    2.7 I    7.3 I    4.7 I    4   I    6.7 I    3.3 I    3.4 I    5.9 I    2.4 I    4.0 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                3 I     10 I      6 I      7 I      6 I      2 I      9 I     14 I      4 I      2 I      2 I     62
  CHILD SUPERVISIO I   16.1 I    9.7 I   11.3 I    9.7 I    3.2 I   14.5 I   22.6 I    6.5 I    3.2 I    3.2 I    1.5
                  I    2.7 I    3.4 I    1.1 I     .9 I    2.2 I    4.9 I    1.3 I    1.8 I     .6 I    1.0 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN      369      177      642      662       90      183     1069      222      340      200     4148
            TOTAL      8.9      4.3     15.5     16.0      2.2      4.4     25.8      5.4      8.2      4.8    100.0
(CONTINUED)
```

```
* * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * *
    SUPER     SUPERVISION UF CHILD OR GROUP                           BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

                SETTING
         COUNT  I
        ROW PCT IPUBLIC O PLAY GRO ACROSS S OTHER       ROW
        COL PCT IPEN SPAC UND      ETTINGS              TOTAL
                I     11  I     12  I     13  I     14  I
SUPER   --------I---------I---------I---------I---------I
             0  I     59  I     54  I     11  I      5  I   3336
  NO SUPERVISION I    1.8  I    1.6  I     .3  I     .1  I   80.4
                I   88.1  I   60.0  I   39.3  I   55.6  I
               -I---------I---------I---------I---------I
             1  I      6  I     23  I      1  I      4  I    562
  DIRECT AD SUPV I    1.1  I    4.1  I     .2  I     .7  I   13.5
                I    9.0  I   25.6  I    3.6  I   44.4  I
               -I---------I---------I---------I---------I
             2  I      2  I     13  I     16  I      0  I    188
  INDIRECT AD SUPV I  1.1  I    6.9  I    8.5  I      0  I    4.5
                I    3.0  I   14.4  I   57.1  I      0  I
               -I---------I---------I---------I---------I
             3  I      0  I      0  I      0  I      0  I     62
  CHILD SUPERVISIO I    0  I      0  I      0  I      0  I    1.5
                I      0  I      0  I      0  I      0  I
               -I---------I---------I---------I---------I
        COLUMN        67        90        28         9     4148
         TOTAL       1.6       2.2        .7        .2    100.0

RAW CHI SQUARE =   347.60095 WITH    39 DEGREES OF FREEDOM.  SIGNIFICANCE =       0
CRAMER'S V =    .16713
CONTINGENCY COEFFICIENT =    .27807                                      TING  DEPENDENT.
LAMBDA (ASYMMETRIC) =    .00616 WITH SUPER    DEPENDENT.         =        0 WITH SET  .01174 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =   .00129
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .03989 WITH SUPER    DEPENDENT.         =
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .01814

NUMBER OF MISSING OBSERVATIONS =   178
```

```
* * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * *
  SUPER    SUPERVISION OF CHILD OR GROUP                          BY  PROG
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  2

               PROG
        COUNT |
      ROW PCT |[illegible]
      COL PCT |
SUPER   -------+
NO SUPERVISION 0 | [illegible]
DIRECT BY SUPV 1 | [illegible]
INDIRECT BY SUPV 2 | [illegible]
CHILD SUPERVISED 3 | [illegible]
        COLUMN     293     275     129     135     284     243     124     219      59     584     2629
         TOTAL    11.1    10.5     4.9     5.1    10.8     9.2     4.7     8.3     2.2    22.2    100.0
(CONTINUED)
```

```
              * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * *
              SION OF CHILD OR GROUP                            BY  PROP
              * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

              ROP

              LOTHING FOOD      MIXED       ROW
                                            TOTAL
                  11  I      12  I      13  I
              -------I---------I---------I
  NO SUPERVISION   56  I     158  I      12  I    2167
                  2.6  I     7.3  I      .6  I    82.5
                 83.6  I    79.0  I    75.0  I
              -------I---------I---------I
  DIRECT AD SUPV 1  7  I      32  I       3  I     301
                  2.3  I    10.6  I     1.0  I    11.5
                 10.4  I    16.0  I    18.8  I
              -------I---------I---------I
  INDIRECT AD SUPV 2 4  I      7  I       1  I     117
                  3.4  I     6.0  I      .9  I     4.5
                  6.0  I     3.5  I     6.3  I
              -------I---------I---------I
  CHILD SUPERVISIO 3 0  I      3  I       0  I      43
                    0  I     7.0  I       0  I     1.6
                    0  I     1.5  I       0  I
        COLUMN   -------I---------I---------I
         TOTAL     67        200         16       2628
RAW CHI SQUARE =   225. 2.5       7.6         .6      100.0
CRAMER'S V =    .16928
CONTINGENCY COEFFICIENT.92154 WITH    36 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
LAMBDA (ASYMMETRIC) =
LAMBDA (SYMMETRIC) =  T =   .28136
UNCERTAINTY COEFFICIENT       0 WITH SUPER    DEPENDENT.          =   .02055 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT.01677
                       (ASYMMETRIC) =    .06588 WITH SUPER    DEPENDENT.          =   .01731 WITH PROP     DEPENDENT.
NUMBER OF MISSING OBSER (SYMMETRIC) =   .02742

                       RVATIONS =  1698
```

TABLE 10 ***

```
* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   SUPER     SUPERVISION OF CHILD OR GROUP                     BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  2

                 BEHAVIOR
          COUNT  I
        ROW PCT  IFORMAL I SOCIALIZ GAMES     WORK      SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING      ROW
        COL PCT  INF GAT-E ING                           PLAY     TING     SCLE ACT OUGH SPA G                   TOTAL
                 I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
SUPER   ---------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              0  I     89 I    446 I    207 I    110 I    154 I    276 I    354 I   1013 I    599 I     72 I   3336
  NO SUPERVISION I    2.7 I   13.4 I    6.2 I    3.3 I    4.6 I    8.3 I   10.6 I   30,4 I   18.0 I    2.2 I   80.5
                 I   90.8 I   68.8 I   84.8 I   73.3 I   88.0 I   87.9 I   80.1 I   82.1 I   82.5 I   80.0 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              1  I      2 I    159 I     30 I     28 I     13 I     24 I     48 I    149 I     87 I     14 I    561
  DIRECT AD SUPV I     .4 I   28.3 I    5.3 I    5.0 I    2.3 I    4.3 I    8.6 I   26.6 I   15.5 I    2.5 I   13.5
                 I    2.0 I   24.5 I   12.3 I   18.7 I    7.4 I    7.6 I   10.9 I   12.1 I   12.0 I   15.6 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              2  I      5 I     24 I      6 I      6 I      8 I     14 I     31 I     62 I     30 I      1 I    188
  INDIRECT AD SUPV I  2.7 I   12.8 I    3.2 I    3.2 I    4.3 I    7.4 I   16.5 I   33.0 I   16.0 I     .5 I    4.5
                 I    5.1 I    3.7 I    2.5 I    4.0 I    4.6 I    4.5 I    7.0 I    5.0 I    4.1 I    1.1 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              3  I      2 I     19 I      1 I      6 I      0 I      0 I      9 I     10 I     10 I      3 I     60
  CHILD SUPERVISIO I  3.3 I   31.7 I    1.7 I   10.0 I      0 I      0 I   15.0 I   16.7 I   16.7 I    5.0 I    1.4
                 I    2.0 I    2.9 I     .4 I    4.0 I     .0 I      0 I    2.0 I     .8 I    1.4 I    3.3 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
         COLUMN        98      648      244      150      175      314      442     1234      726       90     4145
          TOTAL       2.4     15.6      5.9      3.6      4.2      7.6     10.7     29.8     17.5      2.2    100.0
(CONTINUED)
```

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* * * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * *
   SUPER      SUPERVISION OF CHILD OR GROUP                BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

                     BEHAVIOR
             COUNT  I
           ROW PCT  IEMOTIONA   ROW
           COL PCT  IL EXPRES   TOTAL
                    I    11  I
SUPER       --------I--------I
                 0  I    16  I   3336
  NO SUPERVISION    I    .5  I   80.5
                    I  66.7  I
                   -I--------I
                 1  I     7  I    561
  DIRECT AD SUPV    I   1.2  I   13.5
                    I  29.2  I
                   -I--------I
                 2  I     1  I    188
  INDIRECT AD SUPV  I    .5  I    4.5
                    I   4.2  I
                   -I--------I
                 3  I     0  I     60
  CHILD SUPERVISIO  I     0  I    1.4
                    I     0  I
                   -I--------I
            COLUMN       24      4145
             TOTAL       .6     100.0

RAW CHI SQUARE =   157.81137 WITH    30 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .11265
CONTINGENCY COEFFICIENT =     .19151
LAMBDA (ASYMMETRIC) =         0 WITH SUPER    DEPENDENT.          =   .00653 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =    .00511
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .02944 WITH SUPER    DEPENDENT.           =    .00947 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .01433

NUMBER OF MISSING OBSERVATIONS =    181
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TABLE 11 ***

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* * * * * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * * *
    ADSEX      ADULT SEX                                                   BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                           SETTING
                 COUNT   I
               ROW PCT   IFRONT YA SIDE YAR BACK YAR FRONT PO BACK POR PRIVATE  PUBLIC S STREET   APRON    ALLEY      ROW
               COL PCT   IRD       D        D        RCH      CH       SIDEWALK IDEWALK                             TOTAL
                         I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
ADSEX           ---------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     1   I    12  I    12  I    38  I    43  I     3  I    10  I    33  I    33  I    22  I     8  I   218
  MALES ONLY             I   5.5  I   5.5  I  17.4  I  19.7  I   1.4  I   4.6  I  15.1  I  15.1  I  10.1  I   3.7  I  30.1
                         I  19.7  I  48.0  I  32.8  I  35.5  I  33.3  I  33.3  I  21.4  I  43.4  I  38.6  I  42.1  I
                        -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     2   I    38  I    10  I    73  I    42  I     6  I    12  I   111  I    22  I    22  I     8  I   387
  FEMALES ONLY           I   9.8  I   2.6  I  18.9  I  10.9  I   1.6  I   3.1  I  28.7  I   5.7  I   5.7  I   2.1  I  53.4
                         I  62.3  I  40.0  I  62.9  I  34.7  I  66.7  I  40.0  I  72.1  I  28.9  I  38.6  I  42.1  I
                        -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     3   I    11  I     3  I     5  I    36  I     0  I     8  I    10  I    21  I    13  I     3  I   120
  MALES AND FEMALE       I   9.2  I   2.5  I   4.2  I  30.0  I     0  I   6.7  I   8.3  I  17.5  I  10.8  I   2.5  I  16.6
                         I  18.0  I  12.0  I   4.3  I  29.8  I     0  I  26.7  I   6.5  I  27.6  I  22.8  I  15.8  I
                        -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                COLUMN         61       25      116      121        9       30      154       76       57       19      725
                 TOTAL        8.4      3.4     16.0     16.7      1.2      4.1     21.2     10.5      7.9      2.6    100.0



                           SETTING
                 COUNT   I
               ROW PCT   IPUBLIC O PLAY GRO ACROSS S OTHER       ROW
               COL PCT   IPEN SPAC UND      ETTINGS              TOTAL
                         I    11  I    12  I    13  I    14  I
ADSEX           ---------I--------I--------I--------I--------I
                     1   I     2  I     0  I     0  I     2  I   218
  MALES ONLY             I    .9  I     0  I     0  I    .9  I  30.1
                         I  28.6  I     0  I     0  I  50.0  I
                        -I--------I--------I--------I--------I
                     2   I     4  I    36  I     1  I     2  I   387
  FEMALES ONLY           I   1.0  I   9.3  I    .3  I    .5  I  53.4
                         I  5..1  I 100.0  I  10.0  I  50.0  I
                        -I--------I--------I--------I--------I
                     3   I     1  I     0  I     9  I     0  I   120
  MALES AND FEMALE       I    .8  I     0  I   7.5  I     0  I  16.6
                         I  14.3  I     0  I  90.0  I     0  I
                        -I--------I--------I--------I--------I
                COLUMN          7       36       10        4      725
                 TOTAL        1.0      5.0      1.4       .6    100.0

RAW CHI SQUARE =   166.60865 WITH    26 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .33897
CONTINGENCY COEFFICIENT =    .43228
LAMBDA (ASYMMETRIC) =    .06509 WITH ADSEX     DEPENDENT.           =    .06305 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =    .06381
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .12175 WITH ADSEX     DEPENDENT.            =    .05391 WITH SETTING  DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .07473
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* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   ADSEX     ADULT SEX                                        BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                   PROP
           COUNT  I
         ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU   ROW
         COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS        TOYS   SCLE TOY SCLE TOY  TOTAL
                  I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
ADSEX     --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               1  I    27  I     8  I     6  I     3  I    10  I     6  I     5  I    14  I     1  I    28  I   121
  MALES ONLY      I  22.3  I   6.6  I   5.0  I   2.5  I   8.3  I   5.0  I   4.1  I  11.6  I    .8  I  23.1  I  30.2
                  I  28.7  I  32.0  I  20.0  I   7.3  I  26.3  I  37.5  I  33.3  I  50.0  I  25.0  I  50.0  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2  I    40  I    12  I    17  I    35  I    22  I     9  I     3  I     9  I     3  I    25  I   209
  FEMALES ONLY    I  19.1  I   5.7  I   8.1  I  16.7  I  10.5  I   4.3  I   1.4  I   4.3  I   1.4  I  12.0  I  52.2
                  I  42.6  I  48.0  I  56.7  I  85.4  I  57.9  I  56.3  I  20.0  I  32.1  I  75.0  I  44.6  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               3  I    27  I     5  I     7  I     3  I     6  I     1  I     7  I     5  I     0  I     3  I    70
  MALES AND FEMALE I  38.6  I   7.1  I  10.0  I   4.3  I   8.6  I   1.4  I  10.0  I   7.1  I     0  I   4.3  I  17.5
                  I  28.7  I  20.0  I  23.3  I   7.3  I  15.8  I   6.3  I  46.7  I  17.9  I     0  I   5.4  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN        94       25       30       41       38       16       15       28        4       56     400
           TOTAL      23.5      6.3      7.5     10.2      9.5      4.0      3.7      7.0      1.0     14.0   100.0


                   PROP
           COUNT  I
         ROW PCT  ICLOTHING FOOD     MIXED        ROW
         COL PCT  I                               TOTAL
                  I    11  I    12  I    13  I
ADSEX     --------I--------I--------I--------I
               1  I     5  I     7  I     1  I    121
  MALES ONLY      I   4.1  I   5.8  I    .8  I   30.2
                  I  45.5  I  17.9  I  33.3  I
                 -I--------I--------I--------I
               2  I     3  I    29  I     2  I    209
  FEMALES ONLY    I   1.4  I  13.9  I   1.0  I   52.2
                  I  27.3  I  74.4  I  66.7  I
                 -I--------I--------I--------I
               3  I     3  I     3  I     0  I     70
  MALES AND FEMALE I   4.3  I   4.3  I     0  I   17.5
                  I  27.3  I   7.7  I     0  I
                 -I--------I--------I--------I
          COLUMN        11       39        3      400
           TOTAL       2.8      9.7       .7    100.0

RAW CHI SQUARE =     71.55240 WITH    24 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .29907
CONTINGENCY COEFFICIENT =    .38954
LAMBDA (ASYMMETRIC) =    .07330 WITH ADSEX    DEPENDENT.          =   .00327 WITH PROP     DEPENDENT.
LAMBDA (SYMMETRIC) =    .03018
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .09217 WITH ADSEX    DEPENDENT.          =   .04054 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .05631
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TABLE 12 ***

TABLE 13 ***

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* * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
   ADSEX     ADULT SEX                                         BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                 BEHAVIOR
         COUNT  I
       ROW PCT  IFORMAL I SOCIALIZ GAMES    WORK     SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING     ROW
       COL PCT  INF GAT-E ING                         PLAY     TING     SCLE ACT OUGH SPA G                 TOTAL
                I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
ADSEX   --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             1  I     3  I    60  I    26  I     8  I     8  I    14  I    14  I    40  I    42  I     1  I   217
  MALES ONLY    I   1.4  I  27.6  I  12.0  I   3.7  I   3.7  I   6.5  I   6.5  I  18.4  I  19.4  I    .5  I  30.0
                I  42.9  I  34.1  I  72.2  I  25.0  I  40.0  I  38.9  I  18.9  I  19.5  I  36.5  I   6.7  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             2  I     2  I    88  I     9  I    13  I     9  I    16  I    52  I   136  I    46  I    13  I   387
  FEMALES ONLY  I    .5  I  22.7  I   2.3  I   3.4  I   2.3  I   4.1  I  13.4  I  35.1  I  11.9  I   3.4  I  53.5
                I  28.6  I  50.0  I  25.0  I  40.6  I  45.0  I  44.4  I  70.3  I  66.3  I  40.0  I  86.7  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             3  I     2  I    28  I     1  I    11  I     3  I     6  I     8  I    29  I    27  I     1  I   120
  MALES AND FEMALE I 1.7 I  23.3  I    .8  I   9.2  I   2.5  I   5.0  I   6.7  I  24.2  I  22.5  I    .8  I  16.6
                I  28.6  I  15.9  I   2.8  I  34.4  I  15.0  I  16.7  I  10.8  I  14.1  I  23.5  I   6.7  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
        COLUMN        7      176       36       32       20       36       74      205      115       15      724
         TOTAL      1.0     24.3      5.0      4.4      2.8      5.0     10.2     28.3     15.9      2.1    100.0


                 BEHAVIOR
         COUNT  I
       ROW PCT  IEMOTIONA   ROW
       COL PCT  IL EXPRES   TOTAL
                I    11  I
ADSEX   --------I--------I
             1  I     1  I   217
  MALES ONLY    I    .5  I  30.0
                I  12.5  I
               -I--------I
             2  I     3  I   387
  FEMALES ONLY  I    .8  I  53.5
                I  37.5  I
               -I--------I
             3  I     4  I   120
  MALES AND FEMALE I 3.3 I  16.6
                I  50.0  I
               -I--------I
        COLUMN        8      724
         TOTAL      1.1    100.0

RAW CHI SQUARE =    89.24126 WITH    20 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .24826
CONTINGENCY COEFFICIENT =    .33126
LAMBDA (ASYMMETRIC) =    .05638 WITH ADSEX    DEPENDENT.            =   .03854 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =    .04556
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .05939 WITH ADSEX    DEPENDENT.            =   .03047 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .04028
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* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
   CONFAGE   SOCIAL CONFIGURATION, AGE                              BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *   PAGE  1 OF  2

                   SETTING
          COUNT  I
        ROW PCT  IFRONT YA SIDE YAR BACK YAR FRONT PO BACK POR PRIVATE  PUBLIC S STREET   APRON    ALLEY      ROW
        COL PCT  IRD       D        D        RCH      CH       SIDEWALK IDEWALK                             TOTAL
        TOT PCT  I       1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
CONFAGE  --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               1 I    71  I    50  I   113  I   165  I    21  I    59  I   296  I    32  I    56  I    40  I   937
  CHILD ALONE    I   7.6  I   5.3  I  12.1  I  17.6  I   2.2  I   6.3  I  31.6  I   3.4  I   6.0  I   4.3  I  22.9
                 I  19.9  I  28.2  I  17.9  I  25.4  I  23.9  I  32.8  I  28.0  I  14.7  I  16.7  I  20.2  I
                 I   1.7  I   1.2  I   2.8  I   4.0  I    .5  I   1.4  I   7.2  I    .8  I   1.4  I   1.0  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2 I   111  I    64  I   207  I   176  I    26  I    57  I   368  I    70  I   111  I    74  I  1319
  SAME AGE CHILDRE I 8.4  I   4.9  I  15.7  I  13.3  I   2.0  I   4.3  I  27.9  I   5.3  I   8.4  I   5.6  I  32.3
                 I  31.2  I  36.2  I  32.9  I  27.1  I  29.5  I  31.7  I  34.8  I  32.1  I  33.1  I  37.4  I
                 I   2.7  I   1.6  I   5.1  I   4.3  I    .6  I   1.4  I   9.0  I   1.7  I   2.7  I   1.8  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               3 I   113  I    37  I   196  I   187  I    32  I    35  I   236  I    41  I   110  I    65  I  1099
  MIXED AGE CHILDR I 10.3 I   3.4  I  17.8  I  17.0  I   2.9  I   3.2  I  21.5  I   3.7  I  10.0  I   5.9  I  26.9
                 I  31.7  I  20.9  I  31.1  I  28.8  I  36.4  I  19.4  I  22.3  I  18.8  I  32.8  I  32.8  I
                 I   2.8  I    .9  I   4.8  I   4.6  I    .8  I    .9  I   5.8  I   1.0  I   2.7  I   1.6  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               4 I     9  I     3  I    25  I    30  I     2  I     3  I    44  I    20  I    11  I     8  I   155
  ONE CHILD,ONE AD I 5.8  I   1.9  I  16.1  I  19.4  I   1.3  I   1.9  I  28.4  I  12.9  I   7.1  I   5.2  I   3.8
                 I   2.5  I   1.7  I   4.0  I   4.6  I   2.3  I   1.7  I   4.2  I   9.2  I   3.3  I   4.0  I
                 I    .2  I    .1  I    .6  I    .7  I    .0  I    .1  I   1.1  I    .5  I    .3  I    .2  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               5 I    52  I    23  I    89  I    92  I     7  I    26  I   112  I    55  I    47  I    11  I   575
  CHILDREN AND ADU I 9.0  I   4.0  I  15.5  I  16.0  I   1.2  I   4.5  I  19.5  I   9.6  I   8.2  I   1.9  I  14.1
                 I  14.6  I  13.0  I  14.1  I  14.2  I   8.0  I  14.4  I  10.6  I  25.2  I  14.0  I   5.6  I
                 I   1.3  I    .6  I   2.2  I   2.3  I    .2  I    .6  I   2.7  I   1.3  I   1.2  I    .3  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN     358      177      630      650       88      180     1056      218      335      198     4085
           TOTAL     8.7      4.3     15.4     15.9      2.2      4.4     25.9      5.3      8.2      4.8    100.0
(CONTINUED)
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TABLE 14 ***

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* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * *
   CONFAGE   SOCIAL CONFIGURATION, AGE                          BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

                     SETTING
               COUNT  I
             ROW PCT  IPUBLIC O PLAY GRO ACROSS S OTHER       ROW
             COL PCT  IPEN SPAC UND      ETTINGS              TOTAL
             TOT PCT  I    11   I    12   I    13   I    14   I
CONFAGE       --------I---------I---------I---------I---------I
                   1  I     11  I     10  I      8  I      5  I    937
  CHILD ALONE         I    1.2  I    1.1  I     .9  I     .5  I   22.9
                      I   16.4  I   11.1  I   28.6  I   41.7  I
                      I     .3  I     .2  I     .2  I     .1  I
                     -I---------I---------I---------I---------I
                   2  I     23  I     25  I      4  I      3  I   1319
  SAME AGE CHILDRE    I    1.7  I    1.9  I     .3  I     .2  I   32.3
                      I   34.3  I   27.8  I   14.3  I   25.0  I
                      I     .6  I     .6  I     .1  I     .1  I
                     -I---------I---------I---------I---------I
                   3  I     25  I     19  I      3  I      0  I   1099
  MIXED AGE CHILDR    I    2.3  I    1.7  I     .3  I      0  I   26.9
                      I   3/.3  I   21.1  I   10.7  I      0  I
                      I     .6  I     .5  I     .1  I      0  I
                     -I---------I---------I---------I---------I
                   4  I      0  I      0  I      0  I      0  I    155
  ONE CHILD.ONE AD    I      0  I      0  I      0  I      0  I    3.8
                      I      0  I      0  I      0  I      0  I
                      I      0  I      0  I      0  !      0  I
                     -I---------I---------I---------I---------I
                   5  I      8  I     36  I     13  I      4  I    575
  CHILDREN AND ADU    I    1.4  I    6.3  I    2.3  I     .7  I   14.1
                      I   11.9  I   40.0  I   46.4  I   33.3  I
                      I     .2  I     .9  I     .3  I     .1  I
                     -I---------I---------I---------I---------I
              COLUMN         67        90        28        12      4085
               TOTAL        1.6       2.2        .7        .3     100.0

RAW CHI SQUARE =   255.38560 WITH    52 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =   .12502
CONTINGENCY COEFFICIENT =   .24257
LAMBDA (ASYMMETRIC) =   .01627 WITH CONFAGE  DEPENDENT.          =        0 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =   .00777
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .02048 WITH CONFAGE  DEPENDENT.          =   .01349 WITH SETTING  DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .01626

NUMBER OF MISSING OBSERVATIONS =   241
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* * * * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * *
   CONFAGE   SOCIAL CONFIGURATION, AGE                       BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  2

                     PROP
             COUNT   I
            ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU   ROW
            COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT    AL MATER NAL MATE OLS         TOYS    SCLE TOY SCLE TOY  TOTAL
            TOT PCT  I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
CONFAGE     ---------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  1  I    64  I    61  I    24  I    20  I    76  I    60  I    44  I    52  I    17  I   143  I    633
  CHILD ALONE        I  10.1  I   9.6  I   3.8  I   3.2  I  12.0  I   9.5  I   7.0  I   8.2  I   2.7  I  22.6  I   24.4
                     I  22.2  I  22.2  I  18.6  I  15.5  I  27.6  I  24.7  I  36.7  I  24.0  I  29.8  I  24.7  I
                     I   2.5  I   2.4  I    .9  I    .8  I   2.9  I   2.3  I   1.7  I   2.0  I    .7  I   5.5  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  2  I    77  I   116  I    41  I    42  I    85  I   113  I    35  I    68  I    17  I   222  I    899
  SAME AGE CHILDRE   I   8.6  I  12.9  I   4.6  I   4.7  I   9.5  I  12.6  I   3.9  I   7.6  I   1.9  I  24.7  I   34.6
                     I  26.7  I  42.2  I  31.8  I  32.6  I  30.9  I  46.5  I  29.2  I  31.3  I  29.8  I  38.3  I
                     I   3.0  I   4.5  I   1.6  I   1.6  I   3.3  I   4.4  I   1.3  I   2.6  I    .7  I   8.6  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  3  I    51  I    72  I    33  I    27  I    75  I    54  I    25  I    71  I    19  I   157  I    658
  MIXED AGE CHILDR   I   7.8  I  10.9  I   5.0  I   4.1  I  11.4  I   8.2  I   3.8  I  10.8  I   2.9  I  23.9  I   25.4
                     I  17.7  I  26.2  I  25.6  I  20.9  I  27.3  I  22.2  I  20.8  I  32.7  I  33.3  I  27.1  I
                     I   2.0  I   2.8  I   1.3  I   1.0  I   2.9  I   2.1  I   1.0  I   2.7  I    .7  I   6.1  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  4  I    22  I     4  I    10  I     1  I    11  I     6  I     3  I     5  I     1  I    17  I     91
  ONE CHILD,ONE AD   I  24.2  I   4.4  I  11.0  I   1.1  I  12.1  I   6.6  I   3.3  I   5.5  I   1.1  I  18.7  I    3.5
                     I   7.6  I   1.5  I   7.8  I    .8  I   4.0  I   2.5  I   2.5  I   2.3  I   1.8  I   2.9  I
                     I    .8  I    .2  I    .4  I    .0  I    .4  I    .2  I    .1  I    .2  I    .0  I    .7  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  5  I    74  I    22  I    21  I    39  I    28  I    10  I    13  I    21  I     3  I    40  I    314
  CHILDREN AND ADU   I  23.6  I   7.0  I   6.7  I  12.4  I   8.9  I   3.2  I   4.1  I   6.7  I   1.0  I  12.7  I   12.1
                     I  25.7  I   8.0  I  16.3  I  30.2  I  10.2  I   4.1  I  10.8  I   9.7  I   5.3  I   6.9  I
                     I   2.9  I    .8  I    .8  I   1.5  I   1.1  I    .4  I    .5  I    .8  I    .1  I   1.5  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             COLUMN       288      275      129      129      275      243      120      217       57      579     2595
              TOTAL      11.1     10.6      5.0      5.0     10.6      9.4      4.6      8.4      2.2     22.3    100.0
(CONTINUED)
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TABLE 15

```
* * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
    CONFAGE   SOCIAL CONFIGURATION, AGE                         BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  2 OF  2

                    PROP
            COUNT  I
          ROW PCT  ICLOTHING FOOD      MIXED       ROW
          COL PCT  I                               TOTAL
          TOT PCT  I     11  I     12  I     13  I
CONFAGE   --------I--------I--------I--------I
               1  I     20  I     46  I      6  I    633
  CHILD ALONE     I    3.2  I    7.3  I     .9  I   24.4
                  I   29.9  I   23.0  I   37.5  I
                  I     .8  I    1.8  I     .2  I
                 -I--------I--------I--------I
               2  I     22  I     57  I      4  I    899
  SAME AGE CHILDRE I    2.4  I    6.3  I     .4  I   34.6
                  I   32.8  I   28.5  I   25.0  I
                  I     .8  I    2.2  I     .2  I
                 -I--------I--------I--------I
               3  I     14  I     58  I      2  I    658
  MIXED AGE CHILDR I    2.1  I    8.8  I     .3  I   25.4
                  I   20.9  I   29.0  I   12.5  I
                  I     .5  I    2.2  I     .1  I
                 -I--------I--------I--------I
               4  I      4  I      5  I      2  I     91
  ONE CHILD,ONE AD I    4.4  I    5.5  I    2.2  I    3.5
                  I    6.0  I    2.5  I   12.5  I
                  I     .2  I     .2  I     .1  I
                 -I--------I--------I--------I
               5  I      7  I     34  I      2  I    314
  CHILDREN AND ADU I    2.2  I   10.8  I     .6  I   12.1
                  I   10.4  I   17.0  I   12.5  I
                  I     .3  I    1.3  I     .1  I
                 -I--------I--------I--------I
           COLUMN       67       200        16      2595
            TOTAL      2.6       7.7        .6     100.0

RAW CHI SQUARE =   220.25903 WITH    48 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .14567
CONTINGENCY COEFFICIENT =    .27971
LAMBDA (ASYMMETRIC) =   .01002 WITH CONFAGE  DEPENDENT.          =  .01935 WITH PROP     DEPENDENT.
LAMBDA (SYMMETRIC) =   .01509
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .02714 WITH CONFAGE  DEPENDENT.          =   .01668 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .02066

NUMBER OF MISSING OBSERVATIONS =  1731
```

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* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * * *
   CONFAGE   SOCIAL CONFIGURATION, AGE                               BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  2

                  BEHAVIOR
          COUNT  I
        ROW PCT  IFORMAL I SOCIALIZ GAMES     WORK      SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING
        COL PCT  INF GAT-E ING                            PLAY     TING     SCLE ACT OUGH SPA G                    ROW
        TOT PCT  I     1  I     2  I      3  I      4  I      5  I      6  I      7  I      8  I      9  I     10  I   TOTAL
CONFAGE  --------I--------I--------I---------I---------I---------I---------I---------I---------I---------I---------I
               1 I    20  I     6  I     18  I     36  I     38  I     91  I     70  I    403  I    230  I     21  I    938
  CHILD ALONE    I   2.1  I    .6  I    1.9  I    3.8  I    4.1  I    9.7  I    7.5  I   43.0  I   24.5  I    2.2  I   23.0
                 I  20.4  I    .9  I    7.4  I   24.7  I   22.1  I   29.1  I   16.2  I   33.1  I   32.4  I   23.6  I
                 I    .5  I    .1  I     .4  I     .9  I     .9  I    2.2  I    1.7  I    9.9  I    5.6  I     .5  I
                -I--------I--------I---------I---------I---------I---------I---------I---------I---------I---------I
               2 I    40  I   236  I    102  I     41  I     64  I    113  I    161  I    366  I    173  I     19  I   1319
 SAME AGE CHILDRE I   3.0  I  17.9  I    7.7  I    3.1  I    4.9  I    8.6  I   12.2  I   27.7  I   13.1  I    1.4  I   32.3
                 I  40.8  I  37.0  I   42.1  I   28.1  I   37.2  I   36.1  I   37.3  I   30.0  I   24.4  I   21.3  I
                 I   1.0  I   5.8  I    2.5  I    1.0  I    1.6  I    2.8  I    3.9  I    9.0  I    4.2  I     .5  I
                -I--------I--------I---------I---------I---------I---------I---------I---------I---------I---------I
               3 I    31  I   216  I     86  I     36  I     52  I     71  I    127  I    245  I    191  I     34  I   1096
 MIXED AGE CHILDR I   2.8  I  19.7  I    7.8  I    3.3  I    4.7  I    6.5  I   11.6  I   22.4  I   17.4  I    3.1  I   26.8
                 I  31.6  I  33.9  I   35.5  I   24.7  I   30.2  I   22.7  I   29.4  I   20.1  I   26.9  I   38.2  I
                 I    .8  I   5.3  I    2.1  I     .9  I    1.3  I    1.7  I    3.1  I    6.0  I    4.7  I     .8  I
                -I--------I--------I---------I---------I---------I---------I---------I---------I---------I---------I
               4 I     2  I    41  I      9  I      9  I      6  I      6  I      2  I     57  I     18  I      2  I    154
 ONE CHILD,ONE AD I   1.3  I  26.6  I    5.8  I    5.8  I    3.9  I    3.9  I    1.3  I   37.0  I   11.7  I    1.3  I    3.8
                 I   2.0  I   6.4  I    3.7  I    6.2  I    3.5  I    1.9  I     .5  I    4.7  I    2.5  I    2.2  I
                 I    .0  I   1.0  I     .2  I     .2  I     .1  I     .1  I     .0  I    1.4  I     .4  I     .0  I
                -I--------I--------I---------I---------I---------I---------I---------I---------I---------I---------I
               5 I     5  I   139  I     27  I     24  I     12  I     32  I     72  I    147  I     98  I     13  I    575
 CHILDREN AND ADU I    .9  I  24.2  I    4.7  I    4.2  I    2.1  I    5.6  I   12.5  I   25.6  I   17.0  I    2.3  I   14.1
                 I   5.1  I  21.8  I   11.2  I   16.4  I    7.0  I   10.2  I   16.7  I   12.1  I   13.8  I   14.6  I
                 I    .1  I   3.4  I     .7  I     .6  I     .3  I     .8  I    1.8  I    3.6  I    2.4  I     .3  I
                -I--------I--------I---------I---------I---------I---------I---------I---------I---------I---------I
          COLUMN      98      638       242       146       172       313       432      1218       710        89      4082
           TOTAL     2.4     15.6       5.9       3.6       4.2       7.7      10.6      29.8      17.4       2.2     100.0
(CONTINUED)
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TABLE 16

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* * * * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * * *
    CONFAGE    SOCIAL CONFIGURATION, AGE                                BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

                    BEHAVIOR
           COUNT  I
         ROW PCT  IEMOTIONA   ROW
         COL PCT  IL EXPRES  TOTAL
         TOT PCT  I    11  I
CONFAGE   --------I--------I
                1 I     5  I   938
  CHILD ALONE     I    .5  I  23.0
                  I  20.8  I
                  I    .1  I
                 -I--------I
                2 I     4  I  1319
  SAME AGE CHILDRE I    .3  I  32.3
                  I  16.7  I
                  I    .1  I
                 -I--------I
                3 I     7  I  1096
  MIXED AGE CHILDR I    .6  I  26.8
                  I  29.2  I
                  I    .2  I
                 -I--------I
                4 I     2  I   154
  ONE CHILD,ONE AD I   1.3  I   3.8
                  I   8.3  I
                  I    .0  I
                 -I--------I
                5 I     6  I   575
  CHILDREN AND ADU I   1.0  I  14.1
                  I  25.0  I
                  I    .1  I
                 -I--------I
          COLUMN       24     4082
           TOTAL       .6    100.0

RAW CHI SQUARE =    435.22877 WITH    40 DEGREES OF FREEDOM.  SIGNIFICANCE =       0
CRAMER'S V =    .16326
CONTINGENCY COEFFICIENT =    .31040
LAMBDA (ASYMMETRIC) =   .04054 WITH CONFAGE  DEPENDENT.          =        0 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =    .01990
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .04625 WITH CONFAGE  DEPENDENT.          =   .03345 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .03882

NUMBER OF MISSING OBSERVATIONS =   244
```

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* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * *
   CONFSEX   SOCIAL CONFIGURATION,SEX                                    BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  1 OF  1

                    SETTING
              COUNT I
            ROW PCT IFRONT YA SIDE YAR BACK YAR FRONT PO BACK POR PRIVATE  PUBLIC S STREET   APRON    ALLEY      ROW
            COL PCT IRD       D        D        RCH      CH       SIDEWALK IDEWALK                              TOTAL
                    I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
CONFSEX    ---------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  1 I    138 I     66 I    184 I    200 I     29 I     78 I    428 I    103 I    150 I    113 I   1564
   MALES ONLY       I    8.8 I    4.2 I   11.8 I   12.8 I    1.9 I    5.0 I   27.4 I    6.6 I    9.6 I    7.2 I   37.1
                    I   36.7 I   36.1 I   28.3 I   29.7 I   32.2 I   43.3 I   39.6 I   44.4 I   43.1 I   56.2 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  2 I     69 I     47 I    113 I    195 I     30 I     46 I    361 I     39 I     50 I     41 I   1023
   FEMALES ONLY     I    6.7 I    4.6 I   11.0 I   19.1 I    2.9 I    4.5 I   35.3 I    3.8 I    4.9 I    4.0 I   24.2
                    I   18.4 I   25.7 I   17.4 I   29.0 I   33.3 I   25.6 I   33.4 I   16.8 I   14.4 I   20.4 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  3 I    169 I     70 I    354 I    278 I     31 I     56 I    293 I     90 I    148 I     47 I   1634
   BOTH MALES AND F I   10.3 I    4.3 I   21.7 I   17.0 I    1.9 I    3.4 I   17.9 I    5.5 I    9.1 I    2.9 I   38.7
                    I   44.9 I   38.3 I   54.4 I   41.3 I   34.4 I   31.1 I   27.1 I   38.8 I   42.5 I   23.4 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             COLUMN      376      183      651      673       90      180     1082      232      348      201     4221
              TOTAL      8.9      4.3     15.4     15.9      2.1      4.3     25.6      5.5      8.2      4.8    100.0


                    SETTING
              COUNT I
            ROW PCT IPUBLIC O PLAY GRD ACROSS S OTHER       ROW
            COL PCT IPEN SPAC UND      ETTINGS              TOTAL
                    I     11 I     12 I     13 I     14 I
CONFSEX    ---------I--------I--------I--------I--------I
                  1 I     44 I     18 I      8 I      5 I   1564
   MALES ONLY       I    2.8 I    1.2 I     .5 I     .3 I   37.1
                    I   66.7 I   20.7 I   20.0 I   41.7 I
                   -I--------I--------I--------I--------I
                  2 I     10 I      9 I     10 I      3 I   1023
   FEMALES ONLY     I    1.0 I     .9 I    1.0 I     .3 I   24.2
                    I   15.2 I   10.3 I   25.0 I   25.0 I
                   -I--------I--------I--------I--------I
                  3 I     12 I     60 I     22 I      4 I   1634
   BOTH MALES AND F I     .7 I    3.7 I    1.3 I     .2 I   38.7
                    I   18.2 I   69.0 I   55.0 I   33.3 I
                   -I--------I--------I--------I--------I
             COLUMN       66       87       40       12     4221
              TOTAL      1.6      2.1       .9       .3    100.0

RAW CHI SQUARE =    305.37851 WITH     26 DEGREES OF FREEDOM.  SIGNIFICANCE =        0
CRAMER'S V =    .19019
CONTINGENCY COEFFICIENT =    .25974
LAMBDA (ASYMMETRIC) =    .10475 WITH CONFSEX  DEPENDENT.           =   .01943 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =    .05798
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .03348 WITH CONFSEX  DEPENDENT.           =   .01631 WITH SETTING  DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .02194
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TABLE 17

TABLE 18

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* * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
   CONFSEX   SOCIAL CONFIGURATION,SEX                               BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                 PROP
          COUNT  I
        ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU   ROW
        COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT    AL MATER NAL MATE OLS       TOYS   SCLE TOY SCLE TOY  TOTAL
                 I       1 I       2 I       3 I       4 I       5 I       6 I       7 I       8 I       9 I      10 I
CONFSEX  --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              1  I     92 I    122 I     46 I     19 I    109 I     79 I     62 I    116 I     23 I    319 I   1064
  MALES ONLY     I    8.6 I   11.5 I    4.3 I    1.8 I   10.2 I    7.4 I    5.8 I   10.9 I    2.2 I   30.0 I   39.9
                 I   29.4 I   44.4 I   35.9 I   14.2 I   38.4 I   31.9 I   49.2 I   52.7 I   38.3 I   53.3 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              2  I     75 I     46 I     35 I     31 I     86 I     89 I     28 I     30 I     12 I    112 I    629
  FEMALES ONLY   I   11.9 I    7.3 I    5.6 I    4.9 I   13.7 I   14.1 I    4.5 I    4.8 I    1.9 I   17.8 I   23.6
                 I   24.0 I   16.7 I   27.3 I   23.1 I   30.3 I   35.9 I   22.2 I   13.6 I   20.0 I   18.7 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              3  I    146 I    107 I     47 I     84 I     89 I     80 I     36 I     74 I     25 I    167 I    977
  BOTH MALES AND F I 14.9 I   11.0 I    4.8 I    8.6 I    9.1 I    8.2 I    3.7 I    7.6 I    2.6 I   17.1 I   36.6
                 I   46.6 I   38.9 I   36.7 I   62.7 I   31.3 I   32.3 I   28.6 I   33.6 I   41.7 I   27.9 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
         COLUMN       313      275      128      134      284      248      126      220       60      598     2670
          TOTAL      11.7     10.3      4.8      5.0     10.6      9.3      4.7      8.2      2.2     22.4    100.0


                 PROP
          COUNT  I
        ROW PCT  ICLOTHING FOOD     MIXED       ROW
        COL PCT  I                             TOTAL
                 I      11 I      12 I      13 I
CONFSEX  --------I--------I--------I--------I
              1  I     19 I     49 I      9 I   1064
  MALES ONLY     I    1.8 I    4.6 I     .8 I   39.9
                 I   27.5 I   24.5 I   60.0 I
                -I--------I--------I--------I
              2  I     26 I     57 I      2 I    629
  FEMALES ONLY   I    4.1 I    9.1 I     .3 I   23.6
                 I   37.7 I   28.5 I   13.3 I
                -I--------I--------I--------I
              3  I     24 I     94 I      4 I    977
  BOTH MALES AND F I  2.5 I    9.6 I     .4 I   36.6
                 I   34.8 I   47.0 I   26.7 I
                -I--------I--------I--------I
         COLUMN        69      200       15     2670
          TOTAL       2.6      7.5       .6    100.0

RAW CHI SQUARE =   203.08231 WITH    24 DEGREES OF FREEDOM.  SIGNIFICANCE =       0
CRAMER'S V =    .19501
CONTINGENCY COEFFICIENT =    .26587
LAMBDA (ASYMMETRIC) =    .11457 WITH CONFSEX  DEPENDENT.          =        0 WITH PROP     DEPENDENT.
LAMBDA (SYMMETRIC) =    .05003
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .03569 WITH CONFSEX  DEPENDENT.          =   .01648 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .02255
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119

120

TABLE 19

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* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * *
  CONFSEX   SOCIAL CONFIGURATION,SEX                                BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                   BEHAVIOR
            COUNT  I
          ROW PCT  IFORMAL I SOCIALIZ GAMES     WORK      SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING       ROW
          COL PCT  INF GAT-E ING                           PLAY     TING     SCLE ACT OUGH SPA G                    TOTAL
                   I      1  I      2  I      3  I      4  I      5  I      6  I      7  I      8  I      9  I     10  I
CONFSEX   ---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
               1   I     25  I    165  I    143  I     66  I     66  I    131  I    144  I    530  I    269  I     21  I   1564
  MALES ONLY       I    1.6  I   10.5  I    9.1  I    4.2  I    4.2  I    8.4  I    9.2  I   33.9  I   17.2  I    1.3  I   37.1
                   I   25.3  I   25.5  I   58.4  I   44.3  I   38.6  I   42.3  I   31.6  I   41.7  I   35.5  I   23.3  I
                  -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
               2   I     26  I    156  I     21  I     33  I     42  I     75  I     79  I    354  I    209  I     26  I   1024
  FEMALES ONLY     I    2.5  I   15.2  I    2.1  I    3.2  I    4.1  I    7.3  I    7.7  I   34.6  I   20.4  I    2.5  I   24.3
                   I   26.3  I   24.1  I    8.6  I   22.1  I   24.6  I   24.2  I   17.3  I   27.9  I   27.6  I   28.9  I
                  -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
               3   I     48  I    326  I     81  I     50  I     63  I    104  I    233  I    386  I    280  I     43  I   1633
  BOTH MALES AND F I    2.9  I   20.0  I    5.0  I    3.1  I    3.9  I    6.4  I   14.3  I   23.6  I   17.1  I    2.6  I   38.7
                   I   48.5  I   50.4  I   33.1  I   33.6  I   36.8  I   33.5  I   51.1  I   30.4  I   36.9  I   47.8  I
                  -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
           COLUMN        99       647       245       149       171       310       456      1270       758        90      4221
            TOTAL       2.3      15.3       5.8       3.5       4.1       7.3      10.8      30.1      18.0       2.1     100.0


                   BEHAVIOR
            COUNT  I
          ROW PCT  IEMOTIONA   ROW
          COL PCT  IL EXPRES  TOTAL
                   I     11  I
CONFSEX   ---------I---------I
               1   I      4  I   1564
  MALES ONLY       I     .3  I   37.1
                   I   15.4  I
                  -I---------I
               2   I      3  I   1024
  FEMALES ONLY     I     .3  I   24.3
                   I   11.5  I
                  -I---------I
               3   I     19  I   1633
  BOTH MALES AND F I    1.2  I   38.7
                   I   73.1  I
                  -I---------I
           COLUMN        26      4221
            TOTAL        .6     100.0

RAW CHI SQUARE =   210.07673 WITH    20 DEGREES OF FREEDOM.  SIGNIFICANCE =        0
CRAMER'S V =    .15775
CONTINGENCY COEFFICIENT =    .21774
LAMBDA (ASYMMETRIC) =    .09737 WITH CONFSEX  DEPENDENT.           =        0 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =    .04550
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .02370 WITH CONFSEX  DEPENDENT.            =    .01276 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .01659
```

TABLE 20

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* * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * *
    SETTING                                                       BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  4

                    PROP
            COUNT  I
          ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU    ROW
          COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS         TOYS   SCLE TOY SCLE TOY   TOTAL
                   I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
SETTING    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 1 I    29  I    24  I    21  I     0  I    15  I    22  I    22  I    16  I    10  I    51  I    226
  FRONT YARD       I  12.8  I  10.6  I   9.3  I     0  I   6.6  I   9.7  I   9.7  I   7.1  I   4.4  I  22.6  I    8.3
                   I   9.1  I   8.5  I  16.2  I     0  I   5.2  I   8.8  I  17.1  I   7.2  I  16.1  I   8.4  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 2 I    12  I    21  I     4  I     1  I    18  I     3  I    10  I    22  I     2  I    28  I    132
  SIDE YARD        I   9.1  I  15.9  I   3.0  I    .8  I  13.6  I   2.3  I   7.6  I  16.7  I   1.5  I  21.2  I    4.8
                   I   3.8  I   7.4  I   3.1  I    .7  I   6.2  I   1.2  I   7.8  I   9.9  I   3.2  I   4.6  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 3 I    53  I    93  I    23  I    71  I    48  I    16  I    25  I    45  I     9  I    57  I    484
  BACK YARD        I  11.0  I  19.2  I   4.8  I  14.7  I   9.9  I   3.3  I   5.2  I   9.3  I   1.9  I  11.8  I   17.7
                   I  16.7  I  33.0  I  17.7  I  47.3  I  16.6  I   6.4  I  19.4  I  20.3  I  14.5  I   9.4  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 4 I    58  I    21  I    17  I     0  I    59  I    46  I    22  I    44  I    17  I    29  I    373
  FRONT PORCH      I  15.5  I   5.6  I   4.6  I     0  I  15.8  I  12.3  I   5.9  I  11.8  I   4.6  I   7.8  I   13.7
                   I  18.3  I   7.4  I  13.1  I     0  I  20.4  I  18.3  I  17.1  I  19.8  I  27.4  I   4.8  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 5 I    12  I     2  I     4  I     0  I     5  I     6  I     5  I     2  I     0  I     4  I     49
  BACK PORCH       I  24.5  I   4.1  I   8.2  I     0  I  10.2  I  12.2  I  10.2  I   4.1  I     0  I   8.2  I    1.8
                   I   3.8  I    .7  I   3.1  I     0  I   1.7  I   2.4  I   3.9  I    .9  I     0  I    .7  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 6 I    13  I     9  I     3  I     2  I    14  I     5  I    13  I     8  I     2  I    21  I    101
  PRIVATE SIDEWALK I  12.9  I   8.9  I   3.0  I   2.0  I  13.9  I   5.0  I  12.9  I   7.9  I   2.0  I  20.8  I    3.7
                   I   4.1  I   3.2  I   2.3  I   1.3  I   4.8  I   2.0  I  10.1  I   3.6  I   3.2  I   3.4  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 7 I    12  I    35  I    33  I     0  I    86  I   120  I    12  I    42  I     9  I   229  I    663
  PUBLIC SIDEWALK  I   1.8  I   5.3  I   5.0  I     0  I  13.0  I  18.1  I   1.8  I   6.3  I   1.4  I  34.5  I   24.3
                   I   3.8  I  12.4  I  25.4  I     0  I  29.8  I  47.8  I   9.3  I  18.9  I  14.5  I  37.6  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 8 I    78  I     4  I     1  I     0  I     8  I    12  I     2  I     4  I     0  I    58  I    180
  STREET           I  43.3  I   2.2  I    .6  I     0  I   4.4  I   6.7  I   1.1  I   2.2  I     0  I  32.2  I    6.6
                   I  24.6  I   1.4  I    .8  I     0  I   2.8  I   4.8  I   1.6  I   1.3  I     0  I   9.5  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 9 I    31  I    34  I    17  I     0  I    11  I    16  I     5  I    25  I     5  I    53  I    214
  APRON            I  14.5  I  15.9  I   7.9  I     0  I   5.1  I   7.5  I   2.3  I  11.7  I   2.3  I  24.8  I    7.8
                   I   9.8  I  12.1  I  13.1  I     0  I   3.8  I   6.4  I   3.9  I  11.3  I   8.1  I   8.7  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                10 I    13  I    20  I     6  I     1  I    16  I     5  I     7  I     3  I     7  I    38  I    132
  ALLEY            I   9.8  I  15.2  I   4.5  I    .8  I  12.1  I   3.8  I   5.3  I   2.3  I   5.3  I  28.8  I    4.8
                   I   4.1  I   7.1  I   4.6  I    .7  I   5.5  I   2.0  I   5.4  I   1.4  I  11.3  I   6.2  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN       317      282      130      150      289      251      129      222       62      609     2728
            TOTAL      11.6     10.3      4.8      5.5     10.6      9.2      4.7      8.1      2.3     22.3    100.0
(CONTINUED)
```

```
* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   SETTING                                                      BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  4

                 PROP
         COUNT  I
       ROW PCT  ICLOTHING FOOD      MIXED      ROW
       COL PCT  I                              TOTAL
                I    11  I    12  I    13  I
SETTING   --------I--------I--------I--------I
              1 I      8 I      6 I      2 I    226
  FRONT YARD    I    3.5 I    2.7 I     .9 I    8.3
                I   11.4 I    3.0 I   12.5 I
               -I--------I--------I--------I
              2 I      3 I      7 I      1 I    132
  SIDE YARD     I    2.3 I    5.3 I     .8 I    4.8
                I    4.3 I    3.5 I    6.3 I
               -I--------I--------I--------I
              3 I     12 I     29 I      3 I    484
  BACK YARD     I    2.5 I    6.0 I     .6 I   17.7
                I   17.1 I   14.4 I   18.8 I
               -I--------I--------I--------I
              4 I      7 I     51 I      2 I    373
  FRONT PORCH  -I    1.9 I   13.7 I     .5 I   13.7
                I   10.0 I   25.4 I   12.5 I
               -I--------I--------I--------I
              5 I      6 I      3 I      0 I     49
  BACK PORCH    I   12.2 I    6.1 I      0 I    1.8
                I    8.6 I    1.5 I      0 I
               -I--------I--------I--------I
              6 I      2 I      9 I      0 I    101
  PRIVATE SIDEWALK I  2.0 I    8.9 I      0 I    3.7
                I    2.9 I    4.5 I      0 I
               -I--------I--------I--------I
              7 I     13 I     67 I      5 I    663
  PUBLIC SIDEWALK I  2.0 I   10.1 I     .8 I   24.3
                I   18.6 I   33.3 I   31.3 I
               -I--------I--------I--------I
              8 I      9 I      3 I      1 I    180
  STREET        I    5.0 I    1.7 I     .6 I    6.6
                I   12.9 I    1.5 I    6.3 I
               -I--------I--------I--------I
              9 I      5 I     11 I      1 I    214
  APRON         I    2.3 I    5.1 I     .5 I    7.8
                I    7.1 I    5.5 I    6.3 I
               -I--------I--------I--------I
             10 I      3 I     12 I      1 I    132
  ALLEY         I    2.3 I    9.1 I     .8 I    4.8
                I    4.3 I    6.0 I    6.3 I
               -I--------I--------I--------I
         COLUMN       70      201       16     2728
          TOTAL      2.6      7.4       .6    100.0
(CONTINUED)
```

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* * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * *
   SETTING                                                      BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  3 OF  4

                  PROP
         COUNT   I
         ROW PCT IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU   ROW
         COL PCT IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS        TOYS    SCLE TOY SCLE TOY  TOTAL
                 I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
SETTING  --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              11 I     5  I     6  I     1  I     1  I     3  I     0  I     0  I     4  I     1  I    20  I    44
  PUBLIC OPEN SPAC I  11.4  I  13.6  I   2.3  I   2.3  I   6.8  I     0  I     0  I   9.1  I   2.3  I  45.5  I   1.6
                 I   1.6  I   2.1  I    .8  I    .7  I   1.0  I     0  I     0  I   1.8  I   1.6  I   3.3  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              12 I     0  I    11  I     0  I    58  I     0  I     0  I     0  I     6  I     0  I    16  I    91
  PLAY GROUND    I     0  I  12.1  I     0  I  63.7  I     0  I     0  I     0  I   6.6  I     0  I  17.6  I   3.3
                 I     0  I   3.9  I     0  I  38.7  I     0  I     0  I     0  I   2.7  I     0  I   2.6  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              13 I     1  I     1  I     0  I    15  I     6  I     0  I     6  I     0  I     0  I     4  I    34
  ACROSS SETTINGS I   2.9  I   2.9  I     0  I  44.1  I  17.6  I     0  I  17.6  I     0  I     0  I  11.8  I   1.2
                 I    .3  I    .4  I     0  I  10.0  I   2.1  I     0  I   4.7  I     0  I     0  I    .7  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              14 I     0  I     1  I     0  I     1  I     0  I     0  I     0  I     1  I     0  I     1  I     5
  OTHER          I     0  I  20.0  I     0  I  20.0  I     0  I     0  I     0  I  20.0  I     0  I  20.0  I    .2
                 I     0  I    .4  I     0  I    .7  I     0  I     0  I     0  I    .5  I     0  I    .2  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN      317      282      130      150      289      251      129      222       62      609     2728
           TOTAL     11.6     10.3      4.8      5.5     10.6      9.2      4.7      8.1      2.3     22.3    100.0
(CONTINUED)
```

```
* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * * *
   SETTING                                                                BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  4 OF  4

                     PROP
           COUNT  I
         ROW PCT  ICLOTHING FOOD      MIXED       ROW
         COL PCT  I                               TOTAL
                  I    11  I    12  I    13  I
SETTING   --------I--------I--------I--------I
              11  I     1  I     2  I     0  I     44
  PUBLIC OPEN SPAC I   2.3  I   4.5  I     0  I    1.6
                  I   1.4  I   1.0  I     0  I
                 -I--------I--------I--------I
              12  I     0  I     0  I     0  I     91
  PLAY GROUND     I     0  I     0  I     0  I    3.3
                  I     0  I     0  I     0  I
                 -I--------I--------I--------I
              13  I     0  I     1  I     0  I     34
  ACROSS SETTINGS I     0  I   2.9  I     0  I    1.2
                  I     0  I    .5  I     0  I
                 -I--------I--------I--------I
              14  I     1  I     0  I     0  I      5
  OTHER           I  20.0  I     0  I     0  I     .2
                  I   1.4  I     0  I     0  I
                 -I--------I--------I--------I
          COLUMN       70      201       16      2728
           TOTAL      2.6      7.4       .6     100.0

RAW CHI SQUARE =  1720.68587 WITH   156 DEGREES OF FREEDOM.  SIGNIFICANCE =       0
CRAMER'S V =    .22927
CONTINGENCY COEFFICIENT =    .62192
LAMBDA (ASYMMETRIC) =    .10605 WITH SETTING  DEPENDENT.          =   .06937 WITH PROP     DEPENDENT.
LAMBDA (SYMMETRIC) =   .08748
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .11349 WITH SETTING  DEPENDENT.          =   .10908 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .11124

NUMBER OF MISSING OBSERVATIONS =  1598
```

TABLE 21

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* * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
   SETTING                                                 BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE   1 OF   4

                        BEHAVIOR
                 COUNT I
               ROW PCT IFORMAL I SOCIALIZ GAMES    WORK     SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING           ROW
               COL PCT INF GAT-E ING                        PLAY     TING     SCLE ACT OUGH SPA G                       TOTAL
                       I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
SETTING        --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     1 I     12 I     48 I     42 I     14 I     31 I     30 I     49 I     53 I     95 I      5 I       383
   FRONT YARD          I    3.1 I   12.5 I   11.0 I    3.7 I    8.1 I    7.8 I   12.8 I   13.8 I   24.8 I    1.3 I       8.9
                       I   12.0 I    7.2 I   17.1 I    9.0 I   17.7 I    9.4 I   10.4 I    4.1 I   12.2 I    5.6 I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     2 I      3 I     33 I      5 I     15 I     12 I     23 I     21 I     40 I     29 I      7 I       188
   SIDE YARD           I    1.6 I   17.6 I    2.7 I    8.0 I    6.4 I   12.2 I   11.2 I   21.3 I   15.4 I    3.7 I       4.4
                       I    3.0 I    5.0 I    2.0 I    9.7 I    6.9 I    7.2 I    4.5 I    3.1 I    3.7 I    7.8 I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     3 I     22 I     91 I     26 I     36 I     34 I     97 I    140 I     91 I    114 I     15 I       669
   BACK YARD           I    3.3 I   13.6 I    3.9 I    5.4 I    5.1 I   14.5 I   20.9 I   13.6 I   17.0 I    2.2 I      15.5
                       I   22.0 I   13.7 I   10.6 I   23.2 I   19.4 I   30.3 I   29.7 I    7.0 I   14.7 I   16.7 I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     4 I     30 I    156 I     16 I     21 I     45 I     49 I     35 I     49 I    244 I     35 I       687
   FRONT PORCH         I    4.4 I   22.7 I    2.3 I    3.1 I    6.6 I    7.1 I    5.1 I    7.1 I   35.5 I    5.1 I      15.9
                       I   30.0 I   23.5 I    6.5 I   13.5 I   25.7 I   15.3 I    7.4 I    3.8 I   31.4 I   38.9 I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     5 I     12 I     23 I      2 I      3 I      2 I      8 I      5 I     11 I     23 I      1 I        91
   BACK PORCH          I   13.2 I   25.3 I    2.2 I    3.3 I    2.2 I    8.8 I    5.5 I   12.1 I   25.3 I    1.1 I       2.1
                       I   12.0 I    3.5 I     .8 I    1.9 I    1.1 I    2.5 I    1.1 I     .9 I    3.0 I    1.1 I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     6 I      8 I     31 I     11 I     12 I      6 I      9 I     10 I     61 I     32 I      1 I       183
   PRIVATE SIDEWALK    I    4.4 I   16.9 I    6.0 I    6.6 I    3.3 I    4.9 I    5.5 I   33.3 I   17.5 I     .5 I       4.2
                       I    8.0 I    4.7 I    4.5 I    7.7 I    3.4 I    2.8 I    2.1 I    4.7 I    4.1 I    1.1 I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     7 I      6 I    142 I     39 I     21 I     17 I     31 I     48 I    664 I    116 I     14 I      1100
   PUBLIC SIDEWALK     I     .5 I   12.9 I    3.5 I    1.9 I    1.5 I    2.8 I    4.4 I   60.4 I   10.5 I    1.3 I      25.5
                       I    6.0 I   21.4 I   15.9 I   13.5 I    9.7 I    9.7 I   10.2 I   51.4 I   14.9 I   15.6 I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     8 I      1 I     37 I     26 I      7 I      6 I     11 I     10 I     92 I     40 I      2 I       237
   STREET              I     .4 I   15.6 I   11.0 I    3.0 I    2.5 I    4.6 I    4.2 I   38.8 I   16.9 I     .8 I       5.5
                       I    1.0 I    5.6 I   10.6 I    4.5 I    3.4 I    3.4 I    2.1 I    7.1 I    5.1 I    2.2 I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     9 I      0 I     52 I     50 I     11 I     19 I     31 I     47 I     84 I     52 I      7 I       354
   APRON               I      0 I   14.7 I   14.1 I    3.1 I    5.4 I    8.8 I   13.3 I   23.7 I   14.7 I    2.0 I       8.2
                       I      0 I    7.8 I   20.3 I    7.1 I   10.9 I    9.7 I   10.0 I    6.5 I    6.7 I    7.8 I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                    10 I      2 I     37 I     10 I     14 I      3 I     15 I     11 I     88 I     17 I      3 I       201
   ALLEY               I    1.0 I   18.4 I    5.0 I    7.0 I    1.5 I    7.5 I    5.5 I   43.8 I    8.5 I    1.5 I       4.7
                       I    2.0 I    5.6 I    4.1 I    9.0 I    1.7 I    4.7 I    2.3 I    6.8 I    2.2 I    3.3 I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                COLUMN      100      665      246      155      175      320      471     1291      777       90        4316
                 TOTAL      2.3     15.4      5.7      3.6      4.1      7.4     10.9     29.9     18.0      2.1       100.0
(CONTINUED)
```

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* * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
   SETTING                                                              BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  4

                      BEHAVIOR
              COUNT  I
            ROW PCT  IEMOTIONA   ROW
            COL PCT  IL EXPRES  TOTAL
                     I    11   I
SETTING     ---------I---------I
                  1  I     4   I    383
  FRONT YARD         I   1.0   I    8.9
                     I  15.4   I
                    -I---------I
                  2  I     0   I    188
  SIDE YARD          I     0   I    4.4
                     I     0   I
                    -I---------I
                  3  I     3   I    669
  BACK YARD          I    .4   I   15.5
                     I  11.5   I
                    -I---------I
                  4  I     7   I    687
  FRONT PORCH        I   1.0   I   15.9
                     I  26.9   I
                    -I---------I
                  5  I     1   I     91
  BACK PORCH         I   1.1   I    2.1
                     I   3.8   I
                    -I---------I
                  6  I     2   I    183
  PRIVATE SIDEWALK   I   1.1   I    4.2
                     I   7.7   I
                    -I---------I
                  7  I     2   I   1100
  PUBLIC SIDEWALK    I    .2   I   25.5
                     I   7.7   I
                    -I---------I
                  8  I     5   I    237
  STREET             I   2.1   I    5.5
                     I  19.2   I
                    -I---------I
                  9  I     1   I    354
  APRON              I    .3   I    8.2
                     I   3.8   I
                    -I---------I
                 10  I     1   I    201
  ALLEY              I    .5   I    4.7
                     I   3.8   I
                    -I---------I
             COLUMN        26      4316
              TOTAL        .6     100.0
(CONTINUED)
```

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* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
   SETTING                                                        BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  3 OF  4

                    BEHAVIOR
            COUNT  I
          ROW PCT  IFORMAL I SOCIALIZ GAMES    WORK     SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING      ROW
          COL PCT  INF GAT-E ING                          PLAY    TING     SCLE ACT OUGH SPA G                  TOTAL
                   I     1 I     2 I     3 I     4 I     5 I     6 I     7 I     8 I     9 I    10 I
SETTING    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               11  I     3 I     9 I    15 I     1 I     0 I     3 I    12 I    19 I     5 I     0 I     67
  PUBLIC OPEN SPAC I   4.5 I  13.4 I  22.4 I   1.5 I     0 I   4.5 I  17.9 I  28.4 I   7.5 I     0 I    1.6
                   I   3.0 I   1.4 I   6.1 I    .6 I     0 I    .9 I   2.5 I   1.5 I    .6 I     0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               12  I     0 I     4 I     0 I     0 I     0 I    11 I    62 I    16 I     2 I     0 I     95
  PLAY GROUND      I     0 I   4.2 I     0 I     0 I     0 I  11.6 I  65.3 I  16.8 I   2.1 I     0 I    2.2
                   I     0 I    .6 I     0 I     0 I     0 I   3.4 I  13.2 I   1.2 I    .3 I     0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               13  I     1 I     2 I     1 I     0 I     0 I     2 I    20 I    15 I     8 I     0 I     49
  ACROSS SETTINGS  I   2.0 I   4.1 I   2.0 I     0 I     0 I   4.1 I  40.8 I  30.6 I  16.3 I     0 I    1.1
                   I   1.0 I    .3 I    .4 I     0 I     0 I    .6 I   4.2 I   1.2 I   1.0 I     0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               14  I     0 I     0 I     3 I     0 I     0 I     0 I     1 I     8 I     0 I     0 I     12
  OTHER            I     0 I     0 I  25.0 I     0 I     0 I     0 I   8.3 I  66.7 I     0 I     0 I     .3
                   I     0 I     0 I   1.2 I     0 I     0 I     0 I    .2 I    .6 I     0 I     0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN       100      665      246      155      175      320      471     1291      777       90     4316
            TOTAL       2.3     15.4      5.7      3.6      4.1      7.4     10.9     29.9     18.0      2.1    100.0
(CONTINUED)
```

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 * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
     SETTING                                                                BY  BEHAVIOR
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  4 OF  4

                    BEHAVIOR
            COUNT  I
          ROW PCT  IEMOTIONA   ROW
          COL PCT  IL EXPRES  TOTAL
                   I    11  I
SETTING   ---------I--------I
              11   I     0  I     67
  PUBLIC OPEN SPAC I     0  I    1.6
                   I     0  I
                  -I--------I
              12   I     0  I     95
  PLAY GROUND      I     0  I    2.2
                   I     0  I
                  -I--------I
              13   I     0  I     49
  ACROSS SETTINGS  I     0  I    1.1
                   I     0  I
                  -I--------I
              14   I     0  I     12
  OTHER            I     0  I     .3
                   I     0  I
                  -I--------I
           COLUMN       26      4316
            TOTAL       .6     100.0

RAW CHI SQUARE =  1821.53947 WITH   130 DEGREES OF FREEDOM.  SIGNIFICANCE =       0
CRAMER'S V =    .20544
CONTINGENCY COEFFICIENT =    .54478
LAMBDA (ASYMMETRIC) =    .12562 WITH SETTING  DEPENDENT.          =   .11537 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =   .12065
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .08604 WITH SETTING  DEPENDENT.          =  .09531 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .09044

NUMBER OF MISSING OBSERVATIONS =     10
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TABLE 22

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* * * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * * *
  BEHAVIOR                                                        BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *   PAGE  1 OF  4

                     PROP
              COUNT I
            ROW PCT IFIXED.SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU     ROW
            COL PCT IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS          TOYS SCLE TOY SCLE TOY   TOTAL
                    I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
BEHAVIOR  ----------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 1  I      3 I      4 I      1 I      1 I      8 I     44 I      4 I      3 I      2 I      1 I     81
  FORMAL INF GAT-E  I    3.7 I    4.9 I    1.2 I    1.2 I    9.9 I   54.3 I    4.9 I    3.7 I    2.5 I    1.2 I    3.0
                    I     .9 I    1.4 I     .8 I     .7 I    2.8 I   17.5 I    3.1 I    1.3 I    3.3 I     .2 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 2  I     56 I     13 I     30 I      4 I     42 I     34 I      9 I     20 I     10 I     42 I    299
  SOCIALIZING       I   18.7 I    4.3 I   10.0 I    1.3 I   14.0 I   11.4 I    3.0 I    6.7 I    3.3 I   14.0 I   11.0
                    I   17.7 I    4.6 I   23.1 I    2.7 I   14.5 I   13.5 I    7.1 I    9.0 I   16.4 I    6.9 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 3  I      2 I     23 I      7 I      0 I     20 I      3 I      2 I      7 I      8 I    118 I    190
  GAMES             I    1.1 I   12.1 I    3.7 I      0 I   10.5 I    1.6 I    1.1 I    3.7 I    4.2 I   62.1 I    7.0
                    I     .6 I    8.2 I    5.4 I      0 I    6.9 I    1.2 I    1.6 I    3.1 I   13.1 I   19.4 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 4  I     13 I     13 I      5 I      0 I     25 I      7 I     68 I      4 I      0 I     10 I    149
  WORK              I    8.7 I    8.7 I    3.4 I      0 I   16.8 I    4.7 I   45.6 I    2.7 I      0 I    6.7 I    5.5
                    I    4.1 I    4.6 I    3.8 I      0 I    8.6 I    2.8 I   53.5 I    1.8 I      0 I    1.6 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 5  I      8 I      9 I      4 I      0 I     10 I     13 I      4 I     97 I      3 I     14 I    167
  SYMBOLIC PLAY     I    4.8 I    5.4 I    2.4 I      0 I    6.0 I    7.8 I    2.4 I   58.1 I    1.8 I    8.4 I    6.1
                    I    2.5 I    3.2 I    3.1 I      0 I    3.4 I    5.2 I    3.1 I   43.5 I    4.9 I    2.3 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 6  I     27 I    130 I     25 I      3 I     41 I      5 I     16 I     23 I     14 I      9 I    310
  MANIPULATING      I    8.7 I   41.9 I    8.1 I    1.0 I   13.2 I    1.6 I    5.2 I    7.4 I    4.5 I    2.9 I   11.4
                    I    8.5 I   46.1 I   19.2 I    2.0 I   14.1 I    2.0 I   12.6 I   10.3 I   23.0 I    1.5 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 7  I     68 I     50 I     30 I    134 I     30 I      3 I     12 I     17 I      8 I     69 I    430
  LARGE MUSCLE ACT  I   15.8 I   11.6 I    7.0 I   31.2 I    7.0 I     .7 I    2.8 I    4.0 I    1.9 I   16.0 I   15.8
                    I   21.5 I   17.7 I   23.1 I   89.3 I   10.3 I    1.2 I    9.4 I    7.6 I   13.1 I   11.3 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 8  I     43 I     26 I     17 I      5 I     70 I    124 I     10 I     36 I      8 I    284 I    717
  MOVE THROUGH SPA  I    6.0 I    3.6 I    2.4 I     .7 I    9.8 I   17.3 I    1.4 I    5.0 I    1.1 I   39.6 I   26.3
                    I   13.6 I    9.2 I   13.1 I    3.3 I   24.1 I   49.4 I    7.9 I   16.1 I   13.1 I   46.7 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 9  I     88 I     14 I     10 I      3 I     36 I     18 I      2 I     16 I      7 I     61 I    278
  OBSERVING         I   31.7 I    5.0 I    3.6 I    1.1 I   12.9 I    6.5 I     .7 I    5.8 I    2.5 I   21.9 I   10.2
                    I   2..8 I    5.0 I    7.7 I    2.0 I   12.4 I    7.2 I    1.6 I    7.2 I   11.5 I   10.0 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                10  I      2 I      0 I      0 I      0 I      7 I      0 I      0 I      0 I      1 I      0 I     90
  EATING            I    2.2 I      0 I      0 I      0 I    7.8 I      0 I      0 I      0 I    1.1 I      0 I    3.3
                    I     .6 I      0 I      0 I      0 I    2.4 I      0 I      0 I      0 I    1.6 I      0 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             COLUMN      317      282      130      150      290      251      127      223       61      608     2725
              TOTAL     11.6     10.3      4.8      5.5     10.6      9.2      4.7      8.2      2.2     22.3    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
   BEHAVIOR                                                                BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *   PAGE  2 OF  4

                      PROP
            COUNT   I
          ROW PCT   ICLOTHING FOOD       MIXED        ROW
          COL PCT   I                                 TOTAL
                    I     11  I     12  I     13  I
BEHAVIOR   --------I--------I--------I--------I
                  1 I      8  I      2  I      0  I      81
  FORMAL INF GAT-E  I    9.9  I    2.5  I      0  I     3.0
                    I   11.4  I    1.0  I      0  I
                   -I--------I--------I--------I
                  2 I      4  I     34  I      1  I     299
  SOCIALIZING       I    1.3  I   11.4  I     .3  I    11.0
                    I    5.7  I   17.0  I    6.3  I
                   -I--------I--------I--------I
                  3 I      0  I      0  I      0  I     190
  GAMES             I      0  I      0  I      0  I     7.0
                    I      0  I      0  I      0  I
                   -I--------I--------I--------I
                  4 I      4  I      0  I      0  I     149
  WORK              I    2.7  I      0  I      0  I     5.5
                    I    5.7  I      0  I      0  I
                   -I--------I--------I--------I
                  5 I      5  I      0  I      0  I     167
  SYMBOLIC PLAY     I    3.0  I      0  I      0  I     6.1
                    I    7.1  I      0  I      0  I
                   -I--------I--------I--------I
                  6 I     13  I      3  I      1  I     310
  MANIPULATING      I    4.2  I    1.0  I     .3  I    11.4
                    I   18.6  I    1.5  I    6.3  I
                   -I--------I--------I--------I
                  7 I      2  I      4  I      3  I     430
  LARGE MUSCLE ACT  I     .5  I     .9  I     .7  I    15.8
                    I    2.9  I    2.0  I   18.8  I
                   -I--------I--------I--------I
                  8 I     21  I     64  I      9  I     717
  MOVE THROUGH SPA  I    2.9  I    8.9  I    1.3  I    26.3
                    I   30.0  I   32.0  I   56.3  I
                   -I--------I--------I--------I
                  9 I     13  I     10  I      0  I     278
  OBSERVING         I    4.7  I    3.6  I      0  I    10.2
                    I   18.6  I    5.0  I      0  I
                   -I--------I--------I--------I
                 10 I      0  I     79  I      1  I      90
  EATING            I      0  I   87.8  I    1.1  I     3.3
                    I      0  I   39.5  I    6.3  I
                   -I--------I--------I--------I
             COLUMN        70       200        16       2725
              TOTAL       2.6       7.3        .6      100.0
(CONTINUED)
```

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* * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * *
   BEHAVIOR                                                    BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  3 OF  4

                  PROP
          COUNT  I
        ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU   ROW
        COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS        TOYS   SCLE TOY SCLE TOY  TOTAL
                 I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
BEHAVIOR --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              11 I     7  I     0  I     1  I     0  I     1  I     0  I     0  I     0  I     0  I     0  I     14
  EMOTIONAL EXPRES I  50.0  I     0  I   7.1  I     0  I   7.1  I     0  I     0  I     0  I     0  I     0  I     .5
                 I   2.2  I     0  I    .8  I     0  I    .3  I     0  I     0  I     0  I     0  I     0  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN      317      282      130      150      290      251      127      223       61      608    2725
           TOTAL     11.6     10.3      4.8      5.5     10.6      9.2      4.7      8.2      2.2     22.3   100.0
(CONTINUED)
```

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* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * *
   BEHAVIOR                                                            BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  4 OF  4

                 PROP
        COUNT  I
       ROW PCT ICLOTHING FOOD      MIXED       ROW
       COL PCT I                               TOTAL
               I    11  I    12  I    13  I
BEHAVIOR --------I--------I--------I--------I
            11 I     0  I     4  I     1  I     14
  EMOTIONAL EXPRES I     0  I  28.6  I   7.1  I     .5
               I     0  I   2.0  I   6.3  I
              -I--------I--------I--------I
        COLUMN       70      200       16      2725
         TOTAL      2.6      7.3       .6     100.0

RAW CHI SQUARE =  4034.71079 WITH   120 DEGREES OF FREEDOM.  SIGNIFICANCE =       0
CRAMER'S V =   .38479
CONTINGENCY COEFFICIENT =   .77258
LAMBDA (ASYMMETRIC) =   .21464 WITH BEHAVIOR DEPENDENT.          =   .23477 WITH PROP     DEPENDENT.
LAMBDA (SYMMETRIC) =   .22497
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .22301 WITH BEHAVIOR DEPENDENT.          =   .20330 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .21270

NUMBER OF MISSING OBSERVATIONS =  1601
```

Discussion and Conclusions

General: Just briefly, let us discuss the sample in terms of ethnicity. Our criterion for site selection was that there be at least fifty percent Chicanos. From the results we can see that eighty percent of the groups are composed solely of Chicanos, and another ten percent have at least one Chicano in them. It is safe to say then that the population studied is predominantly Chicano; consequently, no need was felt to partial them out from the others when discussing the results. As the sample is so large, the number of non-Chicanos is sufficiently large to discuss them in comparison to Chicanos.

A finding which is interesting in that it relates to opportunities children have for modeling is the surprisingly large amount of supervision by adult males. From our earlier discussion of social learning, we can conclude that male children have a greater than expected opportunity to observe adult males and, consequently, a greater opportunity to model their behavior after them. The reasons for this are probably several. As Chicanos are more family oriented, we might expect male adults to take a greater interest in their children. We also would expect that unemployment and night shifts would be more common in the poorer neighborhood, leaving the father and giving him the opportunity to be home with his children.

Aiello et al. (1974) found the mean group size to be 1.8, with half the children alone, with groups of two and three comprising the rest. Our groups were appreciably larger, with a mean size of 2.75. Groups of two were most popular, with those of one and three being next most popular. An appreciable number of children were found in groups as large as six. This implies that these children not only get more experiences in groups, with the increased social complexity, but they get a more diverse experience, as they are found in a wider range of group sizes. An implication for education is that while the middle-class children observed by Aiello et al. are extremely used to playing alone, these children are not.

Children in this neighborhood spend a surprising amount of time in mixed sex groups. Thre are more mixed sex groups than even groups of males; even, as there are more males than females. In general, we would expect children, especially in a culture where there is strong sex-role identification, to spend much of their time in same sex groups, doing "boy" or "girl" things.

As we found by Marcus (1974), children in this neighborhood spend a good deal of time in paved areas, notably the public sidewalks. Streets are rarely used by the children, although they are paved we might infer that parents feel they are too dangerous. Porches in this area seem very popular, and were lacking in the area studied by Marcus. Back yards are also popular, and a look at the neighborhood reveals that that they are very private due to the fact that they are fenced, and there is much visual privacy due to structures and the fences.

Prop use, in terms of amount, was similar to that reported by Aiello et al., except that our children used a few percents more. This finding takes some of the punch out of the theory (espoused, for example, by Smart and Smart, 1973) that poverty and minority children have few opportunities for manipulating their environment, necessary for cognitive development (especially things to ride and climb). That there are things to ride is evident from the fact that the most used props are the large muscle toys, and that there are things (fences) to climb is evidenced by the substantial use of fixed/semi-fixed materials. The fair use of inanimate-natural and incidental materials indicates that children are taking what they find in their neighborhood and puting them to creative use.

As in the Marcus study, running/walking are the most popular activities. Observing is the next most common activity, accounting for a very similar amount of activity as in the Marcus study, and less than Aiello et al. We found fewer fames than Marcus or Aiello et al. However, we found a very similar amount of large muscle activities as Aiello et al. It is somewhat difficult to directly compare the remaining behaviors, as they are categorized somewhat differently.

Comparisons - Time of Day: When we decided to look at children during both early and late afternoon, we had in mind being able to observe the younger children separately, while the older ones were in school. It did not work out that way, however. There were no significant differences in the ages of children observed at the early and late times. A straight-forward indication is that the older children are not attending school as regularly as they might (possibly as they find it alienating). Interestingly, the use of settings early in the afternoon is different from the late afternoon. The ones closer to home are used more, as if we were observing younger children. It may be that as there are fewer children out early, they feel more comfortable near home. We see more passive behaviors early; also, something we would expect if we were observing younger children.

Sex Differences: We, like Marcus, found that there were more males than females outdoors, although we assume that the distribution of males and females in the population is roughly equal. Females, as one might expect, seem to use the spaces nearer home somewhat more, but there are few differences in space use (unlike Hart and Saegert, 1976). Females also use fewer props, which we would expect, as males presumably are more actively engaged in manipulating their environment. Females seem to use props more that might be called "acceptable". Play equipment and reading/writing/drawing materials are the most used by females. Boys, the presumably more active sex, use more large muscle toys. While boy's behavior is also more active, as expected, the differences found by Marcus indicating females circulate more and "play" less, were not found.

Age Differences: Most of the findings on age are in the expected direction and are, generally, substantial. The older children are more independent, as indicated by the fact that they are alone a good deal more, and are supervised less. As it is the female adults who provide most of the increased supervision, it seems that there are adult role differences in that males seem to provide a certain amount of supervision for all children, while females provide extra supervision for the youngest children who they feel need it. As male children get older, they increasingly segregate themselves into all male groups, while females do not seem to do this to the same extent. This may result from some sort of "macho" idea developing in males, although further evidence on this would be necessary.

Another indication of greater independence for older children is as found by Coates and Bussard (1974), that younger children spend more time in the spaces around the home. Symbolic prop use and play, which takes place in these more private spaces, is most popular (though not very popular) with the younger children. A possible explanation for this (Smart and Smart, 1973) is that as children get older, fantasy activities tend more towards sociodrama, which doesn't necessarily call for props, and which might be less obvious to the passing observer.

A finding which is relevant for the designers of play equipment is that it is used almost exclusively by younger children (and should, therefore, be so designed). Older children prefer games, bicycle riding, and so on. A finding which goes with the idea that older children may wander further from home (Hart and Saegert, 1976) is the far greater amount of moving through space observed for that age group.

Ethnic Differences: From our brief discussion of Chicano culture we learned that Chicanos have fairly strict child-rearing practices. From this we would expect a higher percentage of Chicanos to be supervised, which we find. Chicanos also appear to be a fairly sociable people, as we find fewer Chicanos alone, and more in groups of two and in the larger groups. Another indication of the greater sociability and cooperativeness of Chicanos is the fact that they play more organized games than other groups.

Cognitive differences, presumably related to spacial abilities, lead one to expect differences in use of space between Chicanos and non-Chicanos, which we find, but there is no apparent way of ordering them, for example, along dimensions of public and private spaces. The fact that Chicanos are a rural people may explain the finding that Chicanos use more props than non-Chicanos. The fact that one of the props they use particularly more is animate materials, lends further support to this idea.

Contrary to the stereotype of Chicanos as passive, we found that groups of all non-Chicano children spend the most time observing. While there is no ready explanation for this, we found that mixed ethnic (also, recall, more likely to be mixed-sex and larger than one) groups have a pattern of play very different from the pure ethnic groups. They socialize more, engage in more formal information gathering/expression, and symbolic play. Also, they spend little time moving through space. Possibly, as these children do not go places together, the apparent increase in other activities follows.

Supervision: As implied earlier, groups of all males receive less supervision than groups that are all female, following from the greater independence allowed males. However, groups of males and females together are supervised more than groups consisting of only females. Although children studied are young, it is possible that parents feel that when males and females are together, they should be supervised. Another possibility is that the effect is to some extent artifactual: The sex of the adult is included in the sex configuration of the group, and it is very likely that supervised groups are somewhat more likely to be mixed sex than other groups, as more adults are female, and more children are male. On the other hand, female adults are particularly likely to supervise female children, so no ready explanation is forthcoming.

An indication that streets are perceived as dangerous, above and beyond the limited use, is the extremely high amount of supervision of those children that are out on the streets. On the other hand, adults seem to feel very secure about alleys, back porches, and public open spaces, as they supervise them very little. It seems, then, that adults prefer to supervise areas in front of the home, and spend little time behind it. One consequence of this is that those areas in the back are fairly private for the (older) children, as they can escape the watchful eye of adults.

Props which parents seem to feel most secure with, in that they do not supervise children using them, or conversly, props which children utilize only when not supervised include small or manipulatable objects. Why, then, are large muscle toys also rarely supervised? One explanation is that many of these are wheeled vehicles, and it is fairly difficult to supervise children who are riding around. Another is that large muscle activity, as well as games, which are also fairly low in supervision, is engaged in more by older children who simply are not supervised as much as younger ones who engage more in activities which are high in supervision. Likewise, activities children engage in when not supervised are "peaceful" symbolic play, manipulating, and formal information gathering/expression. Further possible evidence that some of this is the result of the child's decision as to what activities to engage in with or without adults around, is that symbolic prop use is far more common with male adults around than with female adults around. It is possible that the children feel inhibited with adult females present?

Male adults, as one might expect, supervise use of large muscle toys more than female adults, as might be expected, as males are presumably interested in more active sorts of things.

Unfortunately, while this logic is good, there is evidence hat males supervise large muscle activity less than females. A possible resolution of this problem is that many large muscle toys are wheeled vehicles and, as such, their use constitutes moving through space, and it may be this use that is supervised more by males. While it is not surprising that male adults supervise games more, it is surprising that children spend more time socializing when supervised by males than when supervised by females.

Conclusions: In summary, many findings are in line with what was anticipated, from the literature on Chicanos, on socialization, on sex differences, and on the outdoor play of children. In many cases, however, the result, on the surface anyhow, does not seem to make sense based on any of the above. It seems that further research and/or analyses will be necessary to tease apart these relationships.

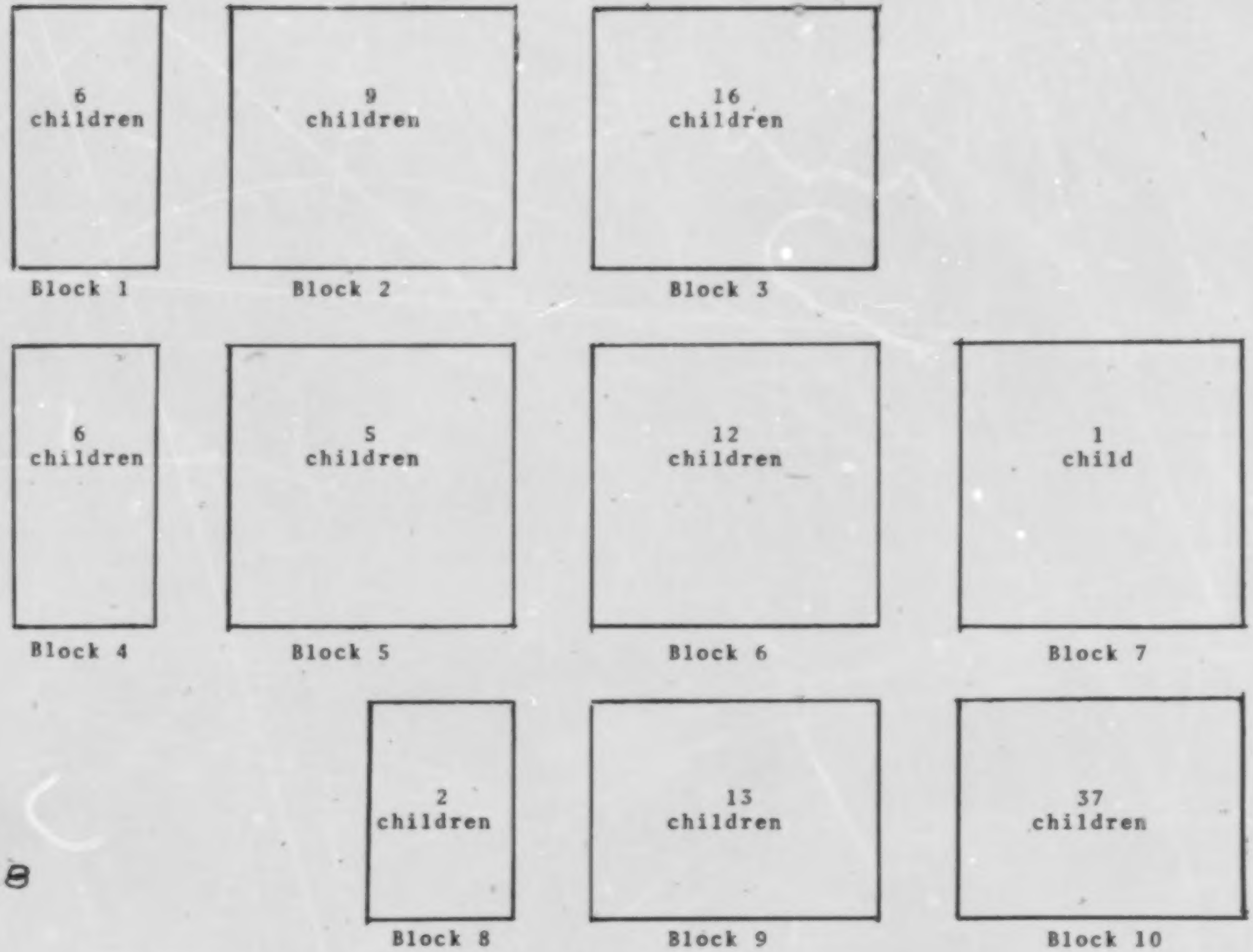
Spatial Occupation Patterns

First and foremost, children are definitely not randomly distributed throughout the neighborhood. There are zones which have extremely high use, and those with extremely low use. This is very stable throughout all three seasons (spring, summer, and fall) during which these data were collected. The only thing which differs somewhat accross the seasons is that the children seem to group together a bit more during the summer, and there were more children outdoors in the summer.

A look at the distribution of where children live within the neighborhood (City's School Board statistics), we see that this, too, is non-random. Three blocks (three, six, and nine on attached map) house thirty-eight percent of the children, and a tenth block (ten on the attached map) houses thirty-five percent. There is some relationship between the population on a given block and the number of children observed there, but this relationship is not perfect. Block one has six children living on it and there are several children observed, while block five has a similar number (five) living on it, yet it appears almost deserted.

The most populated block (ten) is overwhelmingly the most popular. While it has three times the population of block

URBAN BARRIO CHILD POPULATION


6 children
Block 1
9 children
Block 2
16 children
Block 3
6 children
Block 4
5 children
Block 5
12 children
Block 6
1 child
Block 7
2 children
Block 8
13 children
Block 9
37 children
Block 10

nine, we observed more than three times as many children on that block than on block nine. It seems that children have some tendency to play where other children play, or where they expect to find other children. This also helps explain the clustering of children we find throughout the neighborhood.

A look at the neighborhood reveals that four of the most "pleasant looking" blocks (in terms of trees, upkeep, lack of vacant lots, etc.) are the east side of three, the east side of nine, the west side of ten, and the west side of seven. Ten, while similar in appearance to the others, is far and away the most popular. It seems that while there is a correlation between how pleasant a block appears and its use, there is no perfect relationship. For example, the blocks facing the street between two and three are similar to those blocks used heavily, but are not used that much.

Those blocks with the fewest children are the ones with some industrial use, or ones which border on industrial use. These blocks tend to be the ones in the worst shape. While there are not large numbers of children living on these blocks there are some, and where no children are observed, we conclude that they have gone to one of the more populated or pleasanter blocks to play.

There are two "special features" in the neighborhood which might attract children and, to some extent, determine space use. One is a school at the east side of block three, and the other is a small grocery store at the southwest corner of block three. As part of the data was collected during the time children came home from school, we might expect movement patterns around these areas to differ in the summer from the spring and fall. We do not particularly find this in areas near the school: space use patterns and amounts are similar for all seasons. However, there is seasonal variation in the use of walks near the store. During the school year there is a great deal of movement headed west along the walk at the south end of block three. This is absent in the summer. From this usage pattern, it seems safe to conclude that the store is a popular stopping off point on the way home from school.

Spaces within the neighborhood which are most popular seem to be those facing the streets, such as front yards, the aprons, and sidewalks. In terms of front yard use, the presence or absence of fences has little effect upon whether or not a yard is used. The fences themselves seem to be rarely used for climbing or leaning on.

Most children are found along the smaller, northwest streets, with very few along the larger, east-west streets. There is little evidence to indicate that children spend a good deal of time going far in the neighborhood; there is a limit to how far one can get without ever travelling east-west.

Most movement seems to occur in areas where there are clusters of children. Much of the movement is, as noted, north-south, indicating that children may go up and down their block, but not to the next one.

Except for the most populated blocks, alleys are rarely used. Even on those blocks, there are fewer children than one might expect. In the alleys bordering on commercial areas, there is even less use. The alleys are generally cluttered, and it is possible parents do not like for their children to be back there.

Streets - even north-south streets - present a formidable boundary. Streets themselves are rarely used, whether for travelling or play. One might say they represent fairly impermeable boundaries. Even on a very crowded block like ten, there is little spillover into the street. It is common for a block, such as ten, on one side of the street to be very crowded, while a block, such as nine, on the other side is not at all crowded. Another example of this is the north-east corner of block one, which has several children, versus the north-west corner of block two where there are few, again with no one in between.

Conclusion: There are two basic types of blocks: those on the north or east side of the neighborhood which are somewhat prettier and have the most children, and those bordering commercial use (west) or, particularly, the south and west which are not as nice and which house fewer children. Alleys are all similar to look at: visually complex, clutterd, with lots of small buildings and fences, and none are used much. There is almost no traffic east-west in the neighborhood. On the most popular blocks there are children all around the periphery, while on the less populated ones, children seem to cluster (again on the periphery). Where children are seems to be determined mostly by where they live and the fact that they seem to gravitate together, or at least to the same places over and over. As the blocks that seem most pleasant generally house the greater numbers of children, it is hard to say what effect that has, except there are few "nice" areas (for example, two east, and three west) where few children are found, even though there are children living on the blocks. The most popular area (ten west) appears very similar to any number of other, less popular areas.

Within the neighborhood boundaries there is one-half block of heavy industry. In terms of community businesses within the barrio, there is a small grocery store located centrally to the entire neighborhood.

Upon viewing the barrio, it seems to be in somewhat better shape than the statistics would indicate. It is relatively clean, and the majority of the yards and homes are reasonably well kept. The alleys and back yards are generally characterized by a clutter of old automobiles, sheds, detached garages, and a wide variety of fences ranging from the standard chain-link fences to wood-slat fences.

Fences, in fact, predominate throughout the neighborhood, in front as well as in the back.

The fences add to the general visual complexity of the neighborhood. There is a great variety in the buildings; there are many spaces hidden from visual inspection; there is a wide variety of natural materials, including trees, dirt, piles of logs; there is a variety of toys and abandoned cars, religious statues, etc.

The only open, or public spaces, are the streets, sidewalks, alleys, and aprons, along with a small vacant lot. Due to the fences there is limited access between private and public spaces. The demarcation between public and private is, therefore, quite sharp. The most private spaces in the neighborhood are probably the front porches, which almost every home has, and back porches, which are generally much smaller.

In conclusion, the neighborhood provides a great variety of spaces and props. There are clearly public places and clearly private spaces. The neighborhood is a coherent whole, although there is something unique about almost each block in terms of location within the neighborhood or in terms of spaces.

Social Interaction

In the urban barrio site, 4,366 social interactions were recorded using this particular methodology. Of the total, 2,029 were observed during the hours of 1:00-3:00 p.m., and the remaining 2,337 from 3:30-5:30 p.m. Due to the nature of our observations and need to be unobtrusive, the setting of the social interaction is biased to easily accessible locations. For example, the public sidewalk alone accounted for 1,167 observations, or one fourth of the observations.

The mean group size observed was 2.74 children, while the median was 2.60 children. The groups tended to be comprised of children of the same age instead of mixed ages by a ratio of 3.1. Although groups of mixed sexes were most observed all male and all female groups were almost equally observed. In no case was the subject child, focus of the observation, anything other than Chicano. The social language was primarily all English, involving 80.0% of the exchanges. Social exchanges in which only Spanish was used accounted for 14.4%, while a mixture of Spanish and English was used in 5.6% of the exchanges. The mean age of children observed was 6.40 years, and the median was 6.418 years. Males comprised 50.8% of the subject population, and females 49.2%. Although sex did not bias the observations which were conducted, height did. Of children observed, 53.5% were either the taller or tallest in the group.

The social behavior most exhibited was sharing, showing, or cooperating. The next most exhibited behavior was paying attention to other's behavior. Interestingly, the least observed interactions included refusing assistance, praising, and empathy.

Females tended to be observed interacting primarily in front area settings, public sidewalks, and then, front porches and front yards.

Similarly, males were most often observed on public sidewalks and front porches, although proportionately less than girls. Front yards and aprons also provided a significant number of observations with males. Only in the use of aprons did males differ in setting preference from girls. (Refer to Table 1 at the end of this section.)

The most observed interactions among males were paying attention to other's behavior, followed closely by sharing, showing, and cooperating. The least observed interactions involving males included praising, refusing assistance, and empathy.

Females exhibited sharing, showing, and cooperating interactions first, followed by paying attention to others. Least observed interactions for females included refusing assistance, asking permission, praising, and empathy. Refer to Table 2.

The younger age group (ages three to five years) provided 32.1% of the observations and had similar interactions to females. The middle age group (ages six to nine years) comprised 64.4% of the observations and demonstrated the same pattern as the male interactions. Refer to Table 3.

Size, apparently, has little influence in the type of social interaction. Regardless of the subject's height in relation to the tallest child, preferences are paying attention to others, sharing, showing, cooperating, and teaching interactions. Refer to Table 4.

Group size had little influence on children's interactions, although a group of two children slightly increased the possibility of paying attention to others. Sharing, showing, and cooperating are frequent activities for both mixed age and same age children. However, mixed age children tend to teach and model, while same age children pay attention to others. Refer to Table 5.

Group sex configuration has similar relationship to previous variables and social interactions. All male groups tend to pay attention to others and share, show and cooperate, while all female groups engage in identical activities though in opposite order of preference. Groups including both sexes show preferences similar to all girl groups, and in addition teaching, modeling activities are equally preferred to paying attention to others.

Interestingly, there are several categories in which activities were noticeably absent from specific group configurations. For instance, all female groups exhibited no praising, and mixed sex groups never refused assistance or showed empathy. Refer to Table 6.

Of the three most observed interactions: paying attention to others; sharing, showing, cooperating; and teaching modeling, the most popular setting was the public sidewalk which was used for a little over one-fourth of all interactions recorded. For paying attention to others, the front porch was an equally suitable setting. The front yard was the next most used setting for sharing, showing and cooperating. A few less than one-third of the teaching, modeling interactions occurred in the private sidewalks, and an additional 15.9% occurred in the front porch setting. It appears that the three most observed social interactions occur in the public as well as private domains with teaching and modeling occurring in the public sidewalk almost twice as often as the front porch. Paying attention to others occurs equally in the public sidewalk as the front porch, and sharing, showing, and cooperating occur with more frequency in the public sidewalk. Refer to Table 7.

Summary Discussion: In interpreting results of social interactions for children in the urban barrio, several factors should be kept in mind. First, the sidewalk setting provided almost one-fourth of the observations and ensuing social interactions would, more than likely, be of a public nature. Secondly, group size of the most observed same age children groups was between two and three individuals, and usually in mixed sex company, and almost equally male and female populations.

Interestingly, the social language utilized in the urban barrio was English four interactions out of five, with the remaining 14.4% using exclusively Spanish and a mixture of both languages was used in 5.6% of the cases. Two alternative interpretations come to mind for this relatively high frequency of Spanish language use in the urban barrio. First, one may propose that as Spanish speaking families move into an urban setting, the tendency to move into a single-family barrio is strong. Perhaps these newcomers are unaware of the existence of low-income public housing. Or, if aware of low-income public housing, it is plausibe that Chicano families newly arrived in the city will refrain from taking up residence in such a densly populated residential setting.

Alternately, it is proposed that children exhibiting first language preference in Spanish in their unobstructed interactions are probably being reared by parents who are primarily Spanish speaking. This strong Spanish language maintenance could indicate a resistence to urban ways, customs and status quo.

Sharing, showing, and cooperating or paying attention to other's behavior were the most observed behaviors. These results would seem to indicate that urban barrio children are raised in a community group atmosphere and probably rely on visual modalities for learning strategies. For the educational system, the implications are evident. Peer group learning and observing would probably be familiar learning methods.

Males and females apparently make little distinction concerning the space around the house, including the public sidewalk and apron. However, it appears to have more attraction for boys. This may indicate that the conception of public and private has been redefined by urban barrio residents as every area surrounding their houses, with the exception of traffic-ways. Front porches were very popular settings probably because they afforded children a clear view of any approaching individuals, and structurally provided an elevated state-like appearance for their actions.

Sex differences were also indifferent to social interaction. Both males and females shared, showed, and cooperated or payed attention to other's behavior. Empathy, praising, and refusing assistance were equally missing from either sex group. Refusing assistance may involve the social code concerning the group ethos apparent in the urban barrio. The lack of any observable empathy or praising may be interpreted as a lack of emotional reinforcement of peer interactions as we have defined it. One may propose that these two are indications of a personal private dimension in interactions in the urban barrio.

TABLE 1

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* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * *
   SEX      CHILD SEX                                             BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                   SETTING
            COUNT  I
          ROW PCT  IFRONT YA SIDE YAR BACK YAR FRONT PO PRIVATE  PUBLIC S STREET   APRON    ALLEY    PUBLIC O  ROW
          COL PCT  IRD      D        D        RCH      SIDEWALK IDEWALK                             PEN SPAC  TOTAL
                   I     1  I     2  I     3  I     4  I     6  I     7  I     8  I     9  I    10  I    11  I
SEX        --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                1  I   323  I   261  I   166  I   322  I   105  I   457  I    47  I   323  I   116  I     2  I  2202
  MALE             I  14.7  I  11.9  I   7.5  I  14.6  I   4.8  I  20.8  I   2.1  I  14.7  I   5.3  I    .1  I  51.2
                   I  63.2  I  63.8  I  52.5  I  42.1  I  42.0  I  39.4  I  46.1  I  77.3  I  65.9  I 100.0  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                2  I   188  I   148  I   150  I   443  I   145  I   703  I    55  I    95  I    60  I     0  I  2098
  FEMALE           I   9.0  I   7.1  I   7.1  I  21.1  I   6.9  I  33.5  I   2.6  I   4.5  I   2.9  I     0  I  48.8
                   I  36.8  I  36.2  I  47.5  I  57.9  I  58.0  I  60.6  I  53.9  I  22.7  I  34.1  I     0  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN      511      409      316      765      250     1160      102      418      176        2    4300
            TOTAL     11.9      9.5      7.3     17.8      5.8     27.0      2.4      9.7      4.1       .0   100.0


                   SETTING
            COUNT  I
          ROW PCT  IPLAYGROU ACROSS S   ROW
          COL PCT  IND      ETTINGS    TOTAL
                   I    12  I    13  I
SEX        --------I--------I--------I
                1  I    78  I     2  I  2202
  MALE             I   3.5  I    .1  I  51.2
                   I  42.2  I  33.3  I
                  -I--------I--------I
                2  I   107  I     4  I  2098
  FEMALE           I   5.1  I    .2  I  48.8
                   I  57.8  I  66.7  I
                  -I--------I--------I
           COLUMN      185        6     4300
            TOTAL      4.3       .1    100.0

RAW CHI SQUARE =   293.08104 WITH    11 DEGREES OF FREEDOM.  SIGNIFICANCE =       0
CRAMER'S V =    .26107
CONTINGENCY COEFFICIENT =    .25260
LAMBDA (ASYMMETRIC) =    .21258 WITH SEX       DEPENDENT.           =        0 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =    .08515
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .05275 WITH SEX       DEPENDENT.           =    .01683 WITH SETTING  DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .02528

NUMBER OF MISSING OBSERVATIONS =     66
```

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* * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * * *
   SEX       CHILD SEX                                            BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  1 OF  2

                    SOCBEH
           COUNT  I
         ROW PCT  IASKING A OFFERING RECEIVIN REFUSING CALL ATT CALL ATT PAY ATTN PRAISING ASKING P SUBMIT T    ROW
         COL PCT  ISSISTANC  ASSISTA G ASSIST  ASSISTA N OWN BE  OTHERS   OTHERS           ERMISSIO O DIRECT  TOTAL
                  I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
SEX       --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                1 I      7 I     46 I     11 I      3 I     82 I     20 I    206 I      2 I     10 I     69 I   2201
  MALE            I     .3 I    2.1 I     .5 I     .1 I    3.7 I     .9 I    9.4 I     .1 I     .5 I    3.1 I   50.8
                  I   35.0 I   48.4 I   36.7 I   60.0 I   55.0 I   58.8 I   51.1 I   50.0 I   76.9 I   47.6 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                2 I     13 I     49 I     19 I      2 I     67 I     14 I    197 I      2 I      3 I     76 I   2131
  FEMALE          I     .6 I    2.3 I     .9 I     .1 I    3.1 I     .7 I    9.2 I     .1 I     .1 I    3.6 I   49.2
                  I   65.0 I   51.6 I   63.3 I   40.0 I   45.0 I   41.2 I   48.9 I   50.0 I   23.1 I   52.4 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN        20       95       30        5      149       34      403        4       13      145     4332
           TOTAL        .5      2.2       .7       .1      3.4       .8      9.3       .1       .3      3.3    100.0


                    SOCBEH
           COUNT  I
         ROW PCT  IASKING Q TELL WHA ADMONISH TEACHING AGREEING SHARE,SH ASSERT O AGGRESSI TEASING  WITHDRAW    ROW
         COL PCT  IUESTIONS T TO DO          ,MODELIN          OW,COOPE WNERSHIP ON                ING        TOTAL
                  I     11 I     12 I     13 I     14 I     15 I     16 I     17 I     18 I     19 I     20 I
SEX       --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                1 I     67 I    113 I     14 I    195 I     30 I    205 I     40 I     50 I     53 I    109 I   2201
  MALE            I    3.0 I    5.1 I     .6 I    8.9 I    1.4 I    9.3 I    1.8 I    2.3 I    2.4 I    5.0 I   50.8
                  I   51.1 I   44.8 I   38.9 I   53.6 I   48.4 I   47.2 I   76.9 I   61.0 I   42.7 I   49.1 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                2 I     64 I    139 I     22 I    169 I     32 I    229 I     12 I     32 I     71 I    113 I   2131
  FEMALE          I    3.0 I    6.5 I    1.0 I    7.9 I    1.5 I   10.7 I     .6 I    1.5 I    3.3 I    5.3 I   49.2
                  I   48.9 I   55.2 I   61.1 I   46.4 I   51.6 I   52.8 I   23.1 I   39.0 I   57.3 I   50.9 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN       131      252       36      364       62      434       52       82      124      222     4332
           TOTAL       3.0      5.8       .8      8.4      1.4     10.0      1.2      1.9      2.9      5.1    100.0
(CONTINUED)
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TABLE 2

```
* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
    SEX       CHILD SEX                                                BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

                 SOCBEH
          COUNT  I
        ROW PCT  IJOINING  ASSERTIN REFUSING IGNORING IMITATIN ROLE PLA EMOTIONA EMPATHY  TALK-NOT TALK-NO    ROW
        COL PCT  IGROUP    G SELF                     G        YING     L EXPRES          UNDERST  ONE PART  TOTAL
                 I    21  I    22  I    23  I    24  I    25  I    26  I    27  I    28  I    29  I    30  I
SEX     --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              1  I    46  I    65  I    39  I   122  I   130  I    43  I    96  I     2  I   154  I     5  I  2201
  MALE           I   2.1  I   3.0  I   1.8  I   5.5  I   5.9  I   2.0  I   4.4  I    .1  I   7.0  I    .2  I  50.8
                 I  45.1  I  45.5  I  44.8  I  52.8  I  53.1  I  58.9  I  49.2  I  50.0  I  53.8  I  31.3  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              2  I    56  I    78  I    48  I   109  I   115  I    30  I    99  I     2  I   132  I    11  I  2131
  FEMALE         I   2.6  I   3.7  I   2.3  I   5.1  I   5.4  I   1.4  I   4.6  I    .1  I   6.2  I    .5  I  49.2
                 I  54.9  I  54.5  I  55.2  I  47.2  I  46.9  I  41.1  I  50.8  I  50.0  I  46.2  I  68.8  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
         COLUMN      102      143       87      231      245       73      195        4      286       16     4332
          TOTAL      2.4      3.3      2.0      5.3      5.7      1.7      4.5       .1      6.6       .4    100.0


                 SOCBEH
          COUNT  I
        ROW PCT  INOT INTE   ROW
        COL PCT  IRACTING    TOTAL
                 I    35  I
SEX     --------I--------I
              1  I   167  I  2201
  MALE           I   ..6  I  50.8
                 I  5,.0  I
                -I--------I
              2  I   126  I  2131
  FEMALE         I   5.9  I  49.2
                 I  43.0  I
                -I--------I
         COLUMN      293     4332
          TOTAL      6.8    100.0

RAW CHI SQUARE =     56.26362 WITH    30 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0025
CRAMER'S V =    .11396
CONTINGENCY COEFFICIENT =    .11323
LAMBDA (ASYMMETRIC) =    .06898 WITH SEX       DEPENDENT.           =   .00026 WITH SOCBEH   DEPENDENT.
LAMBDA (SYMMETRIC) =    .02455
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .00958 WITH SEX       DEPENDENT.           =   .00218 WITH SOCBEH   DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .00355

NUMBER OF MISSING OBSERVATIONS =     34
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TABLE 3

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* * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
    AGECAT    AGE CATEGORY                                            BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  2

                  SOCBEH
          COUNT  I
          ROW PCT IASKING A OFFERING RECEIVIN REFUSING CALL ATT CALL ATT PAY ATTN PRAISING ASKING P SUBMIT T   ROW
          COL PCT ISSISTANC  ASSISTA G ASSIST  ASSISTA N OWN BE  OTHERS   OTHERS           ERMISSIO O DIRECT  TOTAL
                  I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
AGECAT    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                1 I    12  I    29  I    14  I     4  I    40  I    11  I   105  I     0  I     3  I    62  I  1394
  3-5             I    .9  I   2.1  I   1.0  I    .3  I   2.9  I    .8  I   7.5  I     0  I    .2  I   4.4  I  32.1
                  I  60.0  I  30.5  I  46.7  I  80.0  I  26.8  I  32.4  I  26.1  I     0  I  23.1  I  42.8  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                2 I     8  I    63  I    16  I     1  I   104  I    19  I   286  I     4  I    10  I    79  I  2800
  6-9             I    .3  I   2.3  I    .6  I    .0  I   3.7  I    .7  I  10.2  I    .1  I    .4  I   2.8  I  64.4
                  I  40.0  I  66.3  I  53.3  I  20.0  I  69.8  I  55.9  I  71.0  I 100.0  I  76.9  I  54.5  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                3 I     0  I     3  I     0  I     0  I     5  I     4  I    12  I     0  I     0  I     4  I   152
 10-12            I     0  I   2.0  I     0  I     0  I   3.3  I   2.6  I   7.9  I     0  I     0  I   2.6  I   3.5
                  I     0  I   3.2  I     0  I     0  I   3.4  I  11.8  I   3.0  I     0  I     0  I   2.8  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN       20       95       30        5      149       34      403        4       13      145     4346
           TOTAL       .5      2.2       .7       .1      3.4       .8      9.3       .1       .3      3.3    100.0


                  SOCBEH
          COUNT  I
          ROW PCT IASKING Q TELL WHA ADMONISH TEACHING AGREEING SHARE,SH ASSERT O AGGRESSI TEASING  WITHDRAW   ROW
          COL PCT IUESTIONS T TO DO           ,MODELIN          OW,COOPE WNERSHIP ON                ING       TOTAL
                  I    11  I    12  I    13  I    14  I    15  I    16  I    17  I    18  I    19  I    20  I
AGECAT    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                1 I    45  I    89  I     6  I    90  I    21  I   151  I    20  I    35  I    21  I    90  I  1394
  3-5             I   3.2  I   6.4  I    .6  I   6.5  I   1.5  I  10.8  I   1.4  I   2.5  I   1.5  I   6.5  I  32.1
                  I  34.4  I  35.2  I  22.2  I  24.7  I  33.9  I  34.8  I  37.7  I  42.7  I  16.9  I  39.5  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                2 I    80  I   159  I    24  I   256  I    37  I   266  I    30  I    41  I    91  I   130  I  2800
  6-9             I   2.9  I   5.7  I    .9  I   9.1  I   1.3  I   9.5  I   1.1  I   1.5  I   3.3  I   4.6  I  64.4
                  I  61.1  I  62.8  I  66.7  I  70.3  I  59.7  I  61.3  I  56.6  I  50.0  I  73.4  I  57.0  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                3 I     6  I     5  I     4  I    18  I     4  I    17  I     3  I     6  I    12  I     8  I   152
 10-12            I   3.9  I   3.3  I   2.6  I  11.8  I   2.6  I  11.2  I   2.0  I   3.9  I   7.9  I   5.3  I   3.5
                  I   4.6  I   2.0  I  11.1  I   4.9  I   6.5  I   3.9  I   5.7  I   7.3  I   9.7  I   3.5  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN      131      253       36      364       62      434       53       82      124      228     4346
           TOTAL      3.0      5.8       .8      8.4      1.4     10.0      1.2      1.9      2.9      5.2    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * *
   AGECAT    AGE CATEGORY                                          BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

                 SOCBEH
          COUNT I
        ROW PCT IJOINING  ASSERTIN REFUSING IGNORING IMITATIN ROLE PLA EMOTIONA EMPATHY  TALK-NOT TALK-NO      ROW
        COL PCT IGROUP    G SELF                     G        YING     L EXPRES          UNDERST  ONE PART   TOTAL
                I     21 I     22 I     23 I     24 I     25 I     26 I     27 I     28 I     29 I     30 I
AGECAT  --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              1 I     38 I     49 I     32 I     84 I     88 I      8 I     63 I      2 I     77 I      7 I   1394
  3-5           I    2.7 I    3.5 I    2.3 I    6.0 I    6.3 I     .6 I    4.5 I     .1 I    5.5 I     .5 I   32.1
                I   37.3 I   34.5 I   36.8 I   36.4 I   35.8 I   11.0 I   32.1 I   50.0 I   26.8 I   43.8 I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              2 I     62 I     89 I     52 I    141 I    154 I     62 I    127 I      2 I    200 I      9 I   2800
  6-9           I    2.2 I    3.2 I    1.9 I    5.0 I    5.5 I    2.2 I    4.5 I     .1 I    7.1 I     .3 I   64.4
                I   60.8 I   62.7 I   59.8 I   61.0 I   62.6 I   84.9 I   64.8 I   50.0 I   69.7 I   56.3 I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              3 I      2 I      4 I      3 I      6 I      4 I      3 I      6 I      0 I     10 I      0 I    152
 10-12          I    1.3 I    2.6 I    2.0 I    3.9 I    2.6 I    2.0 I    3.9 I      0 I    6.6 I      0 I    3.5
                I    2.0 I    2.8 I    3.4 I    2.6 I    1.6 I    4.1 I    3.1 I      0 I    3.5 I      0 I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
        COLUMN       102      142       87      231      246       73      196        4      287       16     4346
         TOTAL       2.3      3.3      2.0      5.3      5.7      1.7      4.5       .1      6.6       .4    100.0


                 SOCBEH
          COUNT I
        ROW PCT INOT INTE     ROW
        COL PCT IRACTING    TOTAL
                I     35 I
AGECAT  --------I--------I
              1 I     96 I   1394
  3-5           I    6.9 I   32.1
                I   32.3 I
               -I--------I
              2 I    198 I   2800
  6-9           I    7.1 I   64.4
                I   66.7 I
               -I--------I
              3 I      3 I    152
 10-12          I    2.0 I    3.5
                I    1.0 I
               -I--------I
        COLUMN       297     4346
         TOTAL       6.8    100.0

RAW CHI SQUARE =    144.29262 WITH    60 DEGREES OF FREEDOM.  SIGNIFICANCE =    .0000
CRAMER'S V =    .12884
CONTINGENCY COEFFICIENT =    .17926
LAMBDA (ASYMMETRIC) =    .00453 WITH AGECAT    DEPENDENT.            =    .00537 WITH SOCBEH    DEPENDENT.
LAMBDA (SYMMETRIC) =    .00513
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .02176 WITH AGECAT    DEPENDENT.            =    .00546 WITH SOCBEH    DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .00873
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* * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
   SIZE     CHILD SIZE, IN RELATION TO TALLEST             BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  1 OF  4

                SOCBEH
         COUNT  I
        ROW PCT IASKING A OFFERING RECEIVIN REFUSING CALL ATT CALL ATT PAY ATTN PRAISING ASKING P SUBMIT T     ROW
        COL PCT ISSISTANC  ASSISTA G ASSIST  ASSISTA N OWN BE  OTHERS   OTHERS           ERMISSIO O DIRECT   TOTAL
                I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
SIZE    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              1 I      7 I      9 I      8 I      5 I     29 I      6 I     97 I      1 I      2 I     40 I
  SHORTEST      I     .7 I     .9 I     .8 I     .5 I    2.9 I     .6 I    9.8 I     .1 I     .2 I    4.0 I    991
                I   35.0 I    9.5 I   26.7 I  100.0 I   19.5 I   17.6 I   24.0 I   25.0 I   15.4 I   27.6 I   22.8
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              2 I      1 I      7 I      2 I      0 I     13 I      2 I     35 I      0 I      4 I     27 I
  SHORTER       I     .2 I    1.3 I     .4 I      0 I    2.4 I     .4 I    6.4 I      0 I     .7 I    5.0 I    543
                I    5.0 I    7.4 I    6.7 I      0 I    8.7 I    5.9 I    8.7 I      0 I   30.8 I   18.6 I   12.5
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              3 I      2 I     12 I      7 I      0 I     15 I      3 I     46 I      0 I      2 I     15 I
  ALL SAME      I     .4 I    2.5 I    1.4 I      0 I    3.1 I     .6 I    9.5 I      0 I     .4 I    3.1 I    484
                I   10.0 I   12.6 I   23.3 I      0 I   10.1 I    8.8 I   11.4 I      0 I   15.4 I   10.3 I   11.1
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              4 I      5 I     22 I      7 I      0 I     48 I     16 I     78 I      3 I      2 I     33 I
  TALLER        I     .5 I    2.3 I     .7 I      0 I    5.1 I    1.7 I    8.2 I     .3 I     .2 I    3.5 I    949
                I   25.0 I   23.2 I   23.3 I      0 I   32.2 I   47.1 I   19.3 I   75.0 I   15.4 I   22.8 I   21.8
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              5 I      5 I     45 I      6 I      0 I     44 I      7 I    148 I      0 I      3 I     30 I
  TALLEST       I     .4 I    3.3 I     .4 I      0 I    3.2 I     .5 I   10.7 I      0 I     .2 I    2.2 I   1380
                I   25.0 I   47.4 I   20.0 I      0 I   29.5 I   20.6 I   36.6 I      0 I   23.1 I   20.7 I   31.7
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
         COLUMN        20       95       30        5      149       34      404        4       13      145      4347
          TOTAL        .5      2.2       .7       .1      3.4       .8      9.3       .1       .3      3.3     100.0
(CONTINUED)
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TABLE 4

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* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
    SIZE      CHILD SIZE, IN RELATION TO TALL:ST              BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  4

                     SOCBEH
            COUNT   I
            ROW PCT IASKING Q TELL WHA ADMONISH TEACHING AGREEING SHARE,SH ASSERT O AGGRESSI TEASING  WITHDRAW    ROW
            COL PCT IUESTIONS T TO DO           ,MODELIN          OW,COOPE WNERSHIP ON                ING        TOTAL
                    I    11  I    12  I    13  I    14  I    15  I    16  I    17  I    18  I    19  I    20  I
SIZE        --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  1 I    21  I    36  I     5  I    58  I     7  I    97  I    22  I    23  I    21  I    49  I     991
  SHORTEST          I   2.1  I   3.6  I    .5  I   5.9  I    .7  I   9.8  I   2.2  !   2.3  I   2.1  I   4.9  I    22.8
                    I  16.0  I  14.2  I  13.9  I  15.9  I  11.3  I  22.4  I  41.5  I  28.0  I  16.9  I  21.5  I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  2 I    26  I    27  I     5  I    44  I     9  I    48  I     2  I    14  I    15  I    37  I     543
  SHORTER           I   4.8  I   5.0  I    .9  I   8.1  I   1.7  I   8.8  I    .4  I   2.6  I   2.8  I   6.8  I    12.5
                    I  19.8  I  10.7  I  13.9  I  12.1  I  14.5  I  11.1  I   3.8  I  17.1  I  12.1  I  16.2  I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  3 I    16  I    23  I     0  I    56  I    17  I    63  I     3  I     1  I     7  I    24  I     484
  ALL SAME          I   3.3  I   4.8  I     0  I  11.6  I   3.5  I  13.0  I    .6  I    .2  I   1.4  I   5.0  I    11.1
                    I  12.2  I   9.1  I     0  I  15.4  I  27.4  I  14.5  I   5.7  I   1.2  I   5.6  I  10.5  I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  4 I    29  I    62  I     6  I    72  I    17  I    90  I    11  I    19  I    27  I    67  I     949
  TALLER            I   3.1  I   6.5  I    .6  I   7.6  I   1.8  I   9.5  I   1.2  I   2.0  I   2.8  I   7.1  I    21.8
                    I  22.1  I  24.5  I  16.7  I  19.8  I  27.4  I  20.7  I  20.8  I  23.2  I  21.8  I  29.4  I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  5 I    39  I   105  I    20  I   134  I    12  I   136  I    15  I    25  I    54  I    51  I    1380
  TALLEST           I   2.8  I   7.6  I   1.4  I   9.7  I    .9  I   9.9  I   1.1  I   1.8  I   3.9  I   3.7  I    31.7
                    I  29.8  I  41.5  I  55.6  I  36.8  I  19.4  I  31.3  I  28.3  I  30.5  I  43.5  I  22.4  I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             COLUMN     131      253       36      364       62      434       53       82      124      228       4347
             TOTAL      3.0      5.8       .8      8.4      1.4     10.0      1.2      1.9      2.9      5.2      100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * *
   SIZE      CHILD SIZE, IN RELATION TO TALLEST           BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  3 OF  4

                   SOCBEH
           COUNT  I
         ROW PCT  IJOINING  ASSERTIN REFUSING IGNORING IMITATIN ROLE PLA EMOTIONA EMPATHY  TALK-NOT TALK-NO     ROW
         COL PCT  IGROUP    G SELF                     G        YING     L EXPRES          UNDERST  ONE PART   TOTAL
                  I    21  I    22  I    23  I    24  I    25  I    26  I    27  I    28  I    29  I    30  I
SIZE      --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               1  I    34  I    37  I    29  I    63  I    78  I     7  I    74  I     2  I    68  I     5  I    991
  SHORTEST        I   3.4  I   3.7  I   2.9  I   6.4  I   7.9  I    .7  I   7.5  I    .2  I   6.9  I    .5  I   22.8
                  I  33.3  I  25.9  I  33.3  I  27.4  I  31.7  I   9.6  I  37.6  I  50.0  I  23.7  I  31.3  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2  I    17  I    22  I    17  I    26  I    32  I    18  I    24  I     0  I    34  I     3  I    543
  SHORTER         I   3.1  I   4.1  I   3.1  I   4.8  I   5.9  I   3.3  I   4.4  I     0  I   6.3  I    .6  I   12.5
                  I  16.7  I  15.4  I  19.5  I  11.3  I  13.0  I  24.7  I  12.2  I     0  I  11.8  I  18.8  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               3  I    12  I     8  I    10  I    29  I    22  I     2  I    18  I     0  I    40  I     1  I    484
  ALL SAME        I   2.5  I   1.7  I   2.1  I   6.0  I   4.5  I    .4  I   3.7  I     0  I   8.3  I    .2  I   11.1
                  I  11.8  I   5.6  I  11.5  I  12.6  I   8.9  I   2.7  I   9.1  I     0  I  13.9  I   6.3  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               4  I    15  I    24  I    14  I    59  I    49  I    17  I    31  I     1  I    59  I     2  I    949
  TALLER          I   1.6  I   2.5  I   1.5  I   6.2  I   5.2  I   1.8  I   3.3  I    .1  I   6.2  I    .2  I   21.8
                  I  14.7  I  16.8  I  16.1  I  25.7  I  19.9  I  23.3  I  15.7  I  25.0  I  20.6  I  12.5  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               5  I    24  I    52  I    17  I    53  I    65  I    29  I    50  I     1  I    86  I     5  I   1380
  TALLEST         I   1.7  I   3.8  I   1.2  I   3.8  I   4.7  I   2.1  I   3.6  I    .1  I   6.2  I    .4  I   31.7
                  I  23.5  I  36.4  I  19.5  I  23.0  I  26.4  I  39.7  I  25.4  I  25.0  I  30.0  I  31.3  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN      102      143       87      230      246       73      197        4      287       16      4347
           TOTAL      2.3      3.3      2.0      5.3      5.7      1.7      4.5       .1      6.6       .4     100.0
(CONTINUED)
```

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* * * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * *
   SIZE       CHILD SIZE, IN RELATION TO TALLEST            BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  4 OF  4

                           SOCBEH
                COUNT  I
               ROW PCT INOT INTE   ROW
               COL PCT IRACTING   TOTAL
                       I     35  I
SIZE           --------I---------I
                    1  I     51  I    991
  SHORTEST             I    5.1  I   22.8
                       I   17.2  I
                      -I---------I
                    2  I     32  I    543
  SHORTER              I    5.9  I   12.5
                       I   10.8  I
                      -I---------I
                    3  I     30  I    484
  ALL SAME             I    6.2  I   11.1
                       I   10.1  I
                      -I---------I
                    4  I     64  I    949
  TALLER               I    6.7  I   21.8
                       I   21.6  I
                      -I---------I
                    5  I    119  I   1380
  TALLEST              I    8.6  I   31.7
                       I   40.2  I
                      -I---------I
               COLUMN       296      4347
                TOTAL       6.8     100.0

RAW CHI SQUARE =   350.09279 WITH   120 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .14189
CONTINGENCY COEFFICIENT =    .27301
LAMBDA (ASYMMETRIC) =   .04516 WITH SIZE     DEPENDENT.          =   .00307 WITH SOCBEH   DEPENDENT.
LAMBDA (SYMMETRIC) =   .02122
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .02619 WITH SIZE     DEPENDENT.          =   .01320 WITH SOCBEH   DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .01755

NUMBER OF MISSING OBSERVATIONS =    19
```

TABLE 5

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* * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
   GPSIZE    SIZE OF GROUP                                  BY  SOCBEM    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  4

               SOCBEH
         COUNT  I
        ROW PCT IASKING A OFFERING RECEIVIN REFUSING CALL ATT CALL ATT PAY ATTN PRAISING ASKING P SUBMIT T   ROW
        COL PCT ISSISTANC  ASSISTA G ASSIST  ASSISTA N OWN BE  OTHERS   OTHERS           ERMISSIO O DIRECT  TOTAL
                I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
GPSIZE  --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              2 I     8  I    50  I    17  I     4  I    75  I    11  I   200  I     2  I     9  I    55  I  1976
                I    .4  I   2.5  I    .9  I    .2  I   3.8  I    .6  I  10.1  I    .1  I    .5  I   2.8  I  46.1
                I  42.1  I  53.8  I  56.7  I  80.0  I  50.7  I  34.4  I  50.9  I  50.0  I  69.2  I  37.9  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              3 I     8  I    34  I    10  I     1  I    48  I    13  I   134  I     2  I     1  I    69  I  1599
                I    .5  I   2.1  I    .6  I    .1  I   3.0  I    .8  I   8.4  I    .1  I    .1  I   4.3  I  37.3
                I  42.1  I  36.6  I  33.3  I  20.0  I  32.4  I  40.6  I  34.1  I  50.0  I   7.7  I  47.6  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              4 I     3  I     8  I     3  I     0  I    21  I     7  I    46  I     0  I     3  I    19  I   577
                I    .5  I   1.4  I    .5  I     0  I   3.6  I   1.2  I   8.0  I     0  I    .5  I   3.3  I  13.5
                I  15.8  I   8.6  I  10.0  I     0  I  14.2  I  21.9  I  11.7  I     0  I  23.1  I  13.1  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              5 I     0  I     0  I     0  I     0  I     4  I     0  I     9  I     0  I     0  I     2  I   113
                I     0  I     0  I     0  I     0  I   3.5  I     0  I   8.0  I     0  I     0  I   1.8  I   2.6
                I     0  I     0  I     0  I     0  I   2.7  I     0  I   2.3  I     0  I     0  I   1.4  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              6 I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     5
                I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I    .1
                I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              7 I     0  I     1  I     0  I     0  I     0  I     1  I     4  I     0  I     0  I     0  I    17
                I     0  I   5.9  I     0  I     0  I     0  I   5.9  I  23.5  I     0  I     0  I     0  I    .4
                I     0  I   1.1  I     0  I     0  I     0  I   3.1  I   1.0  I     0  I     0  I     0  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
         COLUMN      19        93        30         5       148        32       393         4        13       145     4287
          TOTAL      .4       2.2        .7        .1       3.5        .7       9.2        .1        .3       3.4    100.0
(CONTINUED)
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 * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
    GPSIZE    SIZE OF GROUP                                  BY  SOCBEH    SOCIAL BEHAVIOR
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  4

                       SOCBEH
                COUNT  I
              ROW PCT  IASKING Q TELL WHA ADMONISH TEACHING AGREEING SHARE,SH ASSERT O AGGRESSI TEASING  WITHDRAW   ROW
              COL PCT  IUESTIONS T TO DO           ,MODELIN          OW,COOPE WNERSHIP ON                ING        TOTAL
                       I    11  I    12  I    13  I    14  I    15  I    16  I    17  I    18  I    19  I    20  I
 GPSIZE        --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                    2  I    66  I   116  I    20  I   166  I    36  I   197  I    23  I    23  I    39  I   106  I   1976
                       I   3.3  I   5.9  I   1.0  I   8.4  I   1.8  I  10.0  I   1.2  I   1.2  I   2.0  I   5.4  I   46.1
                       I  51.6  I  45.8  I  55.6  I  45.6  I  58.1  I  45.4  I  45.1  I  28.8  I  31.5  I  48.6  I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                    3  I    38  I   107  I    13  I   122  I    19  I   162  I    15  I    46  I    71  I    73  I   1599
                       I   2.4  I   6.7  I    .8  I   7.6  I   1.2  I  10.1  I    .9  I   2.9  I   4.4  I   4.6  I   37.3
                       I  29.7  I  42.3  I  36.1  I  33.5  I  30.6  I  37.3  I  29.4  I  57.5  I  57.3  I  33.5  I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                    4  I    22  I    28  I     3  I    58  I     5  I    59  I    11  I     8  I    13  I    30  I    577
                       I   3.8  I   4.9  I    .5  I  10.1  I    .9  I  10.2  I   1.9  I   1.4  I   2.3  I   5.2  I   13.5
                       I  17.2  I  11.1  I   8.3  I  15.9  I   8.1  I  13.6  I  21.6  I  10.0  I  10.5  I  13.8  I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                    5  I     2  I     2  I     0  I    17  I     2  I    14  I     2  I     3  I     1  I     9  I    113
                       I   1.8  I   1.8  I     0  I  15.0  I   1.8  I  12.4  I   1.8  I   2.7  I    .9  I   8.0  I    2.6
                       I   1.6  I    .8  I     0  I   4.7  I   3.2  I   3.2  I   3.9  I   3.7  I    .8  I   4.1  I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                    6  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I      5
                       I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     .1
                       I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                    7  I     0  I     0  I     0  I     1  I     0  I     2  I     0  I     0  I     0  I     0  I     17
                       I     0  I     0  I     0  I   5.9  I     0  I  11.8  I     0  I     0  I     0  I     0  I     .4
                       I     0  I     0  I     0  I    .3  I     0  I    .5  I     0  I     0  I     0  I     0  I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               COLUMN      128      253       36      364       62      434       51       80      124      218     4287
                TOTAL      3.0      5.9       .8      8.5      1.4     10.1      1.2      1.9      2.9      5.1    100.0
 (CONTINUED)
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* * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * *
    GPSIZE     SIZE OF GROUP                                  BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *   PAGE  3 OF  4

                     SOCBEH
             COUNT  I
            ROW PCT IJOINING  ASSERTIN REFUSING IGNORING IMITATIN ROLE PLA EMOTIONA EMPATHY  TALK-NOT TALK-NO       ROW
            COL PCT IGROUP    G SELF                     G        YING     L EXPRES          UNDERST  ONE PART   TOTAL
                    I     21 I     22 I     23 I     24 I     25 I     26 I     27 I     28 I     29 I     30 I
GPSIZE      --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 2  I     33 I     52 I     44 I    114 I    106 I     33 I     81 I      2 I    142 I      8 I   1976
                    I    1.7 I    2.6 I    2.2 I    5.8 I    5.4 I    1.7 I    4.1 I     .1 I    7.2 I     .4 I   46.1
                    I   33.0 I   36.1 I   50.6 I   50.4 I   43.6 I   45.2 I   42.4 I   50.0 I   49.7 I   50.0 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 3  I     41 I     55 I     27 I     73 I     98 I     28 I     87 I      2 I     89 I      5 I   1599
                    I    2.6 I    3.4 I    1.7 I    4.6 I    6.1 I    1.8 I    5.4 I     .1 I    5.6 I     .3 I   37.3
                    I   41.0 I   38.2 I   31.0 I   32.3 I   40.3 I   38.4 I   45.5 I   50.0 I   31.1 I   31.3 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 4  I     21 I     32 I     11 I     32 I     28 I     11 I     10 I      0 I     50 I      3 I    577
                    I    3.6 I    5.5 I    1.9 I    5.5 I    4.9 I    1.9 I    1.7 I      0 I    8.7 I     .5 I   13.5
                    I   21.0 I   22.2 I   12.6 I   14.2 I   11.5 I   15.1 I    5.2 I      0 I   17.5 I   18.8 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 5  I      2 I      4 I      5 I      7 I      8 I      1 I     12 I      0 I      1 I      0 I    113
                    I    1.8 I    3.5 I    4.4 I    6.2 I    7.1 I     .9 I   10.6 I      0 I     .9 I      0 I    2.6
                    I    2.0 I    2.8 I    5.7 I    3.1 I    3.3 I    1.4 I    6.3 I      0 I     .3 I      0 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 6  I      0 I      1 I      0 I      0 I      3 I      0 I      1 I      0 I      0 I      0 I      5
                    I      0 I   20.0 I      0 I      0 I   60.0 I      0 I   20.0 I      0 I      0 I      0 I     .1
                    I      0 I     .7 I      0 I      0 I    1.2 I      0 I     .5 I      0 I      0 I      0 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 7  I      3 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      4 I      0 I     17
                    I   17.6 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I   23.5 I      0 I     .4
                    I    3.0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I    1.4 I      0 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            COLUMN       100      144       87      226      243       73      191        4      286       16     4287
             TOTAL       2.3      3.4      2.0      5.3      5.7      1.7      4.5       .1      6.7       .4    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * *
    GPSIZE    SIZE OF GROUP                                            BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  4 OF  4

                    SOCBEH
            COUNT  I
           ROW PCT INOT INTE   ROW
           COL PCT IRACTING   TOTAL
                   I    35  I
GPSIZE     --------I--------I
                2  I   138  I  1976
                   I   /.0  I  46.1
                   I  48.4  I
                  -I--------I
                3  I   108  I  1599
                   I   6.8  I  37.3
                   I  3/.9  I
                  -I--------I
                4  I    32  I   577
                   I   5.5  I  13.5
                   I  11.2  I
                  -I--------I
                5  I     6  I   113
                   I   5.3  I   2.6
                   I   2.1  I
                  -I--------I
                6  I     0  I     5
                   I     0  I    .1
                   I     0  I
                  -I--------I
                7  I     1  I    17
                   I   5.9  I    .4
                   I    .4  I
                  -I--------I
           COLUMN      285     4287
            TOTAL      6.6    100.0

RAW CHI SQUARE =   254.32127 WITH   150 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .10893
CONTINGENCY COEFFICIENT =    .23665
LAMBDA (ASYMMETRIC) =    .03808 WITH GPSIZE   DEPENDENT.          =   .00285 WITH SOCBEH   DEPENDENT.
LAMBDA (SYMMETRIC) =    .01606
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .02481 WITH GPSIZE   DEPENDENT.          =   .00911 WITH SOCBEH   DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .01333

NUMBER OF MISSING OBSERVATIONS =    79
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* * * * * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
   CONFSEX   SEX CONFIGURATION OF GROUP                         BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  2

                     SOCBEH
              COUNT I
            ROW PCT IASKING A OFFERING RECEIVIN REFUSING CALL ATT CALL ATT PAY ATTN PRAISING ASKING P SUBMIT T    ROW
            COL PCT ISSISTANC  ASSISTA G ASSIST  ASSISTA N OWN BE  OTHERS   OTHERS            ERMISSIO O DIRECT  TOTAL
                    I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
CONFSEX     --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  1 I      5 I     30 I      5 I      3 I     53 I     13 I    152 I      1 I      7 I     49 I   1499
   MALES ONLY       I     .3 I    2.0 I     .3 I     .2 I    3.5 I     .9 I   10.1 I     .1 I     .5 I    3.3 I   34.6
                    I   25.0 I   31.6 I   16.7 I   60.0 I   35.6 I   38.2 I   37.7 I   25.0 I   53.8 I   33.8 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  2 I      6 I     33 I     13 I      2 I     37 I      4 I     94 I      0 I      3 I     50 I   1119
   FEMALES ONLY     I     .5 I    2.9 I    1.2 I     .2 I    3.3 I     .4 I    8.4 I      0 I     .3 I    4.5 I   25.8
                    I   30.0 I   34.7 I   43.3 I   40.0 I   24.8 I   11.8 I   23.3 I      0 I   23.1 I   34.5 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  3 I      9 I     32 I     12 I      0 I     59 I     17 I    157 I      3 I      3 I     46 I   1719
   BOTH MALES & FEM I     .5 I    1.9 I     .7 I      0 I    3.4 I    1.0 I    9.1 I     .2 I     .2 I    2.7 I   39.6
                    I   45.0 I   33.7 I   40.0 I      0 I   39.6 I   50.0 I   39.0 I   75.0 I   23.1 I   31.7 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             COLUMN       20       95       30        5      149       34      403        4       13      145     4337
              TOTAL       .5      2.2       .7       .1      3.4       .8      9.3       .1       .3      3.3    100.0


                     SOCBEH
              COUNT I
            ROW PCT IASKING Q TELL WHA ADMONISH TEACHING AGREEING SHARE,SH ASSERT O AGGRESSI TEASING  WITHDRAW    ROW
            COL PCT IUESTIONS T TO DO           ,MODELIN          OW,COOPE WNERSHIP ON                ING        TOTAL
                    I     11 I     12 I     13 I     14 I     15 I     16 I     17 I     18 I     19 I     20 I
CONFSEX     --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  1 I     50 I     84 I     10 I    131 I     25 I    144 I     24 I     31 I     25 I     73 I   1499
   MALES ONLY       I    3.3 I    5.6 I     .7 I    8.7 I    1.7 I    9.6 I    1.6 I    2.1 I    1.7 I    4.9 I   34.6
                    I   38.2 I   33.3 I   27.8 I   36.0 I   40.3 I   33.2 I   46.2 I   37.8 I   20.2 I   32.9 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  2 I     30 I     86 I     12 I     89 I     23 I    119 I      3 I     12 I     31 I     66 I   1119
   FEMALES ONLY     I    2.7 I    7.7 I    1.1 I    8.0 I    2.1 I   10.6 I     .3 I    1.1 I    2.8 I    5.9 I   25.8
                    I   22.9 I   34.1 I   33.3 I   24.5 I   37.1 I   27.4 I    5.8 I   14.6 I   25.0 I   29.7 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  3 I     51 I     82 I     14 I    144 I     14 I    171 I     25 I     39 I     68 I     83 I   1719
   BOTH MALES & FEM I    3.0 I    4.8 I     .8 I    8.4 I     .8 I    9.9 I    1.5 I    2.3 I    4.0 I    4.8 I   39.6
                    I   38.9 I   32.5 I   38.9 I   39.6 I   22.6 I   39.4 I   48.1 I   47.6 I   54.8 I   37.4 I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             COLUMN      131      252       36      364       62      434       52       82      124      222     4337
              TOTAL      3.0      5.8       .8      8.4      1.4     10.0      1.2      1.9      2.9      5.1    100.0
(CONTINUED)
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TABLE 6

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* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * *
    CONFSEX   SEX CONFIGURATION OF GROUP                    BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

                    SOCBEH
            COUNT  I
           ROW PCT IJOINING  ASSERTIN REFUSING IGNORING IMITATIN ROLE PLA EMOTIONA EMPATHY  TALK-NOT TALK-NO   ROW
           COL PCT IGROUP    G SELF                     G        YING     L EXPRES          UNDERST  ONE PART TOTAL
                   I    21  I    22  I    23  I    24  I    25  I    26  I    27  I    28  I    29  I    30  I
CONFSEX    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 1 I    25  I    43  I    27  I    86  I    81  I    35  I    58  I     2  I   110  I     3  I  1499
  MALES ONLY       I   1.7  I   2.9  I   1.8  I   5.7  I   5.4  I   2.3  I   3.9  I    .1  I   7.3  I    .2  I  34.6
                   I  24.5  I  29.7  I  31.0  I  37.2  I  32.9  I  47.9  I  29.7  I  50.0  I  38.3  I  18.8  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 2 I    32  I    32  I    22  I    52  I    70  I    21  I    51  I     2  I    60  I     6  I  1119
  FEMALES ONLY     I   2.9  I   2.9  I   2.0  I   4.6  I   6.3  I   1.9  I   4.6  I    .2  I   5.4  I    .5  I  25.8
                   I  31.4  I  22.1  I  25.3  I  22.5  I  28.5  I  26.8  I  26.2  I  50.0  I  20.9  I  37.5  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 3 I    45  I    70  I    38  I    93  I    95  I    17  I    86  I     0  I   117  I     7  I  1719
  BOTH MALES & FEM I   2.6  I   4.1  I   2.2  I   5.4  I   5.5  I   1.0  I   5.0  I     0  I   6.8  I    .4  I  39.6
                   I  44.1  I  48.3  I  43.7  I  40.3  I  38.6  I  23.3  I  44.1  I     0  I  40.8  I  43.8  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN      102      145       87      231      246       73      195        4      287       16     4337
            TOTAL      2.4      3.3      2.0      5.3      5.7      1.7      4.5       .1      6.6       .4    100.0


                    SOCBEH
            COUNT  I
           ROW PCT INOT INTE   ROW
           COL PCT IRACTING   TOTAL
                   I    35  I
CONFSEX    --------I--------I
                 1 I   114  I  1499
  MALES ONLY       I   7.6  I  34.6
                   I  38.8  I
                  -I--------I
                 2 I    58  I  1119
  FEMALES ONLY     I   5.2  I  25.8
                   I  19.7  I
                  -I--------I
                 3 I   122  I  1719
  BOTH MALES & FEM I   7.1  I  39.6
                   I  41.5  I
                  -I--------I
           COLUMN      294     4337
            TOTAL      6.8    100.0

RAW CHI SQUARE =    124.5002 WITH    60 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .11993
CONTINGENCY COEFFICIENT =    .16721
LAMBDA (ASYMMETRIC) =   .01833 WITH CONFSEX  DEPENDENT.            =   .00205 WITH SOCBEH   DEPENDENT.
LAMBDA (SYMMETRIC) =   .00859
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .01433 WITH CONFSEX  DEPENDENT.           =   .00509 WITH SOCBEH   DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .00751
```

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* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   SETTING                                                     BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  8

                    SOCBEH
          COUNT   I
          ROW PCT IASKING A OFFERING RECEIVIN REFUSING CALL ATT CALL ATT PAY ATTN PRAISING ASKING P SUBMIT T   ROW
          COL PCT ISSISTANC  ASSISTA G ASSIST  ASSISTA N OWN BE  OTHERS   OTHERS           ERMISSIO D DIRECT  TOTAL
                  I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
SETTING   --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               1  I     0  I    10  I     1  I     0  I    23  I     5  I    36  I     0  I     1  I    15  I   514
  FRONT YARD      I     0  I   1.9  I    .2  I     0  I   4.5  I   1.0  I   7.0  I     0  I    .2  I   2.9  I  11.9
                  I     0  I  10.5  I   3.3  I     0  I  15.9  I  14.7  I   9.1  I     0  I   7.7  I  10.3  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2  I     2  I     7  I     2  I     1  I    13  I     4  I    24  I     0  I     2  I    19  I   410
  SIDE YARD       I    .5  I   1.7  I    .5  I    .2  I   3.2  I   1.0  I   5.9  I     0  I    .5  I   4.6  I   9.5
                  I  10.0  I   7.4  I   6.7  I  20.0  I   9.0  I  11.8  I   6.0  I     0  I  15.4  I  13.1  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               3  I     2  I     4  I     2  I     0  I     4  I     3  I    18  I     1  I     0  I    22  I   317
  BACK YARD       I    .6  I   1.3  I    .6  I     0  I   1.3  I    .9  I   5.7  I    .3  I     0  I   6.9  I   7.3
                  I  10.0  I   4.2  I   6.7  I     0  I   2.8  I   8.8  I   4.5  I  25.0  I     0  I  15.2  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               4  I     6  I    11  I     3  I     1  I    41  I     8  I    98  I     1  I     4  I    12  I   768
  FRONT PORCH     I    .8  I   1.4  I    .4  I    .1  I   5.3  I   1.0  I  12.8  I    .1  I    .5  I   1.6  I  17.8
                  I  30.0  I  11.6  I  10.0  I  20.0  I  28.3  I  23.5  I  24.7  I  25.0  I  30.8  I   8.3  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               6  I     1  I     7  I     5  I     0  I     6  I     0  I    27  I     1  I     0  I     8  I   251
  PRIVATE SIDEWALK I   .4  I   2.8  I   2.0  I     0  I   2.4  I     0  I  10.8  I    .4  I     0  I   3.2  I   5.8
                  I   5.0  I   7.4  I  16.7  I     0  I   4.1  I     0  I   6.8  I  25.0  I     0  I   5.5  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               7  I     5  I    33  I    11  I     0  I    23  I     4  I    98  I     0  I     2  I    38  I  1165
  PUBLIC SIDEWALK I    .4  I   2.8  I    .9  I     0  I   2.0  I    .3  I   8.4  I     0  I    .2  I   3.3  I  27.0
                  I  25.0  I  34.7  I  36.7  I     0  I  15.9  I  11.8  I  24.7  I     0  I  15.4  I  26.2  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               8  I     0  I     0  I     0  I     0  I     2  I     5  I     8  I     0  I     0  I     5  I   101
  STREET          I     0  I     0  I     0  I     0  I   2.0  I   5.0  I   7.9  I     0  I     0  I   5.0  I   2.3
                  I     0  I     0  I     0  I     0  I   1.4  I  14.7  I   2.0  I     0  I     0  I   3.4  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               9  I     1  I     4  I     0  I     2  I    18  I     0  I    65  I     0  I     0  I    14  I   419
  APRON           I    .2  I   1.0  I     0  I    .5  I   4.3  I     0  I  15.5  I     0  I     0  I   3.3  I   9.7
                  I   5.0  I   4.2  I     0  I  40.0  I  12.4  I     0  I  16.4  I     0  I     0  I   9.7  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              10  I     2  I     7  I     5  I     0  I     7  I     2  I    14  I     1  I     3  I     5  I   177
  ALLEY           I   1.1  I   4.0  I   2.8  I     0  I   4.0  I   1.1  I   7.9  I    .6  I   1.7  I   2.8  I   4.1
                  I  10.0  I   7.4  I  16.7  I     0  I   4.8  I   5.9  I   3.5  I  25.0  I  23.1  I   3.4  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              11  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     2
  PUBLIC OPEN SPAC I    0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I    .0
                  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN       20       95       30        5      145       34      397        4       13      145     4314
           TOTAL        .5      2.2       .7       .1      3.4       .8      9.2       .1       .3      3.4    100.0
(CONTINUED)
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TABLE 7

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* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
  SETTING                                                    BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *   PAGE  2 OF  8

                SOCBEH
         COUNT  I
       ROW PCT  IASKING Q TELL WHA ADMONISH TEACHING AGREEING SHARE,SH ASSERT O AGGRESSI TEASING  WITHDRAW   ROW
       COL PCT  IUESTIONS T TO DO           ,MODELIN          OW,COOPE WNERSHIP ON                ING       TOTAL
                I   11   I   12   I   13   I   14   I   15   I   16   I   17   I   18   I   19   I   20   I
SETTING         --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             1  I    8   I   25   I    7   I   52   I    8   I   97   I    8   I    3   I   13   I   16   I   514
  FRONT YARD    I   1.6  I   4.9  I   1.4  I  10.1  I   1.6  I  18.9  I   1.6  I    .6  I   2.5  I   3.1  I  11.9
                I   6.1  I   9.9  I  19.4  I  14.3  I  12.9  I  22.7  I  15.4  I   3.7  I  10.7  I   7.1  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             2  I   10   I   19   I    1   I   28   I    4   I   44   I    7   I   15   I    3   I   27   I   410
  SIDE YARD     I   2.4  I   4.6  I    .2  I   6.8  I   1.0  I  10.7  I   1.7  I   3.7  I    .7  I   6.6  I   9.5
                I   7.6  I   7.5  I   2.8  I   7.7  I   6.5  I  10.3  I  13.5  I  18.5  I   2.5  I  11.9  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             3  I   12   I   13   I    2   I   27   I    4   I   21   I    0   I    5   I    1   I   17   I   317
  BACK YARD     I   3.8  I   4.1  I    .6  I   8.5  I   1.3  I   6.6  I    0   I   1.6  I    .3  I   5.4  I   7.3
                I   9.2  I   5.2  I   5.6  I   7.4  I   6.5  I   4.9  I    0   I   6.2  I    .8  I   7.5  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             4  I   29   I   31   I    8   I   58   I    8   I   77   I   14   I   11   I   16   I   41   I   768
  FRONT PORCH   I   3.8  I   4.0  I   1.0  I   7.6  I   1.0  I  10.0  I   1.8  I   1.4  I   2.1  I   5.3  I  17.8
                I  22.1  I  12.3  I  22.2  I  15.9  I  12.9  I  18.0  I  26.9  I  13.6  I  13.1  I  18.1  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             6  I    0   I   16   I    2   I   13   I    0   I   18   I    4   I    8   I   15   I   12   I   251
  PRIVATE SIDEWALK I 0   I   6.4  I    .8  I   5.2  I    0   I   7.2  I   1.6  I   3.2  I   6.0  I   4.8  I   5.8
                I    0   I   6.3  I   5.6  I   3.6  I    0   I   4.2  I   7.7  I   9.9  I  12.3  I   5.3  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             7  I   51   I   87   I   12   I  110   I   25   I  102   I    9   I   29   I   45   I   73   I  1165
  PUBLIC SIDEWALK I 4.4  I   7.5  I   1.0  I   9.4  I   2.1  I   8.8  I    .8  I   2.5  I   3.9  I   6.3  I  27.0
                I  38.9  I  34.5  I  33.3  I  30.2  I  40.3  I  23.8  I  17.3  I  35.8  I  36.9  I  32.3  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             8  I    2   I    9   I    1   I    5   I    2   I   16   I    1   I    1   I    3   I    6   I   101
  STREET        I   2.0  I   8.9  I   1.0  I   5.0  I   2.0  I  15.8  I   1.0  I   1.0  I   3.0  I   5.9  I   2.3
                I   1.5  I   3.6  I   2.8  I   1.4  I   3.2  I   3.7  I   1.9  I   1.2  I   2.5  I   2.7  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             9  I   10   I   17   I    2   I   45   I    1   I   15   I    5   I    7   I   18   I   16   I   419
  APRON         I   2.4  I   4.1  I    .5  I  10.7  I    .2  I   3.6  I   1.2  I   1.7  I   4.3  I   3.8  I   9.7
                I   7.6  I   6.7  I   5.6  I  12.4  I   1.6  I   3.5  I   9.6  I   8.6  I  14.8  I   7.1  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            10  I    4   I   13   I    0   I   17   I    7   I   22   I    1   I    2   I    4   I   11   I   177
  ALLEY         I   2.3  I   7.3  I    0   I   9.6  I   4.0  I  12.4  I    .6  I   1.1  I   2.3  I   6.2  I   4.1
                I   3.1  I   5.2  I    0   I   4.7  I  11.3  I   5.1  I   1.9  I   2.5  I   3.3  I   4.9  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            11  I    0   I    0   I    0   I    0   I    0   I    0   I    0   I    0   I    0   I    0   I     2
  PUBLIC OPEN SPAC I 0   I    0   I    0   I    0   I    0   I    0   I    0   I    0   I    0   I    0   I    .0
                I    0   I    0   I    0   I    0   I    0   I    0   I    0   I    0   I    0   I    0   I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
         COLUMN     131      252       36      364       62      428       52       81      122      226     4314
          TOTAL     3.0      5.8       .8      8.4      1.4      9.9      1.2      1.9      2.8      5.2    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * *
   SETTING                                                      BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  3 OF  8

                    SOCBEH
             COUNT I
           ROW PCT IJOINING  ASSERTIN REFUSING IGNORING IMITATIN ROLE PLA EMOTIONA EMPATHY  TALK-NOT TALK-NO       ROW
           COL PCT IGROUP    G SELF                     G        YING     L EXPRES          UNDERST  ONE PART    TOTAL
                   I     21 I     22 I     23 I     24 I     25 I     26 I     27 I     28 I     29 I     30 I
SETTING    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 1 I      5 I     18 I      9 I     11 I     30 I      3 I     35 I      0 I     41 I      1 I    514
  FRONT YARD       I    1.0 I    3.5 I    1.8 I    2.1 I    5.8 I     .6 I    6.8 I      0 I    8.0 I     .2 I   11.9
                   I    5.0 I   12.4 I   10.3 I    4.8 I   12.2 I    4.1 I   17.9 I      0 I   14.6 I    6.3 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 2 I     18 I     18 I      5 I     28 I     24 I      5 I     13 I      0 I     30 I      1 I    410
  SIDE YARD        I    4.4 I    4.4 I    1.2 I    6.8 I    5.9 I    1.2 I    3.2 I      0 I    7.3 I     .2 I    9.5
                   I   1,.8 I   12.4 I    5.7 I   12.3 I    9.8 I    6.8 I    6.6 I      0 I   10.7 I    6.3 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 3 I      7 I     17 I     10 I      6 I     16 I      6 I     19 I      0 I     38 I      4 I    317
  BACK YARD        I    2.2 I    5.4 I    3.2 I    1.9 I    5.0 I    1.9 I    6.0 I      0 I   12.0 I    1.3 I    7.3
                   I    6.9 I   11.7 I   11.5 I    2.6 I    6.5 I    8.2 I    9.7 I      0 I   13.6 I   25.0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 4 I     18 I     17 I     17 I     55 I     37 I     11 I     34 I      2 I     53 I      3 I    768
  FRONT PORCH      I    2.3 I    2.2 I    2.2 I    7.2 I    4.8 I    1.4 I    4.4 I     .3 I    6.9 I     .4 I   17.8
                   I   1..8 I   11.7 I   19.5 I   24.1 I   15.1 I   15.1 I   17.3 I   50.0 I   18.9 I   18.8 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 6 I      9 I      6 I      1 I      9 I     14 I      0 I      6 I      0 I     16 I      3 I    251
  PRIVATE SIDEWALK I    3.6 I    2.4 I     .4 I    3.6 I    5.6 I      0 I    2.4 I      0 I    6.4 I    1.2 I    5.8
                   I    8.9 I    4.1 I    1.1 I    3.9 I    5.7 I      0 I    3.1 I      0 I    5.7 I   18.8 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 7 I     31 I     35 I     28 I     49 I     71 I     19 I     51 I      0 I     61 I      0 I   1165
  PUBLIC SIDEWALK  I    2.7 I    3.0 I    2.4 I    4.2 I    6.1 I    1.6 I    4.4 I      0 I    5.2 I      0 I   27.0
                   I   30.7 I   24.1 I   32.2 I   21.5 I   29.0 I   26.0 I   26.0 I      0 I   21.8 I      0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 8 I      0 I      6 I      2 I      7 I      9 I      0 I      4 I      0 I      5 I      0 I    101
  STREET           I      0 I    5.9 I    2.0 I    6.9 I    8.9 I      0 I    4.0 I      0 I    5.0 I      0 I    2.3
                   I      0 I    4.1 I    2.3 I    3.1 I    3.7 I      0 I    2.0 I      0 I    1.8 I      0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 9 I      7 I     17 I      7 I     33 I     24 I     27 I     20 I      1 I     20 I      0 I    419
  APRON            I    1.7 I    4.1 I    1.7 I    7.9 I    5.7 I    6.4 I    4.8 I     .2 I    4.8 I      0 I    9.7
                   I    6.9 I   11.7 I    8.0 I   14.5 I    9.8 I   37.0 I   10.2 I   25.0 I    7.1 I      0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                10 I      1 I      0 I      4 I     17 I      5 I      2 I      6 I      0 I      8 I      0 I    177
  ALLEY            I     .6 I      0 I    2.3 I    9.6 I    2.8 I    1.1 I    3.4 I      0 I    4.5 I      0 I    4.1
                   I    1.0 I      0 I    4.6 I    7.5 I    2.0 I    2.7 I    3.1 I      0 I    2.9 I      0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                11 I      0 I      0 I      0 I      2 I      0 I      0 I      0 I      0 I      0 I      0 I      2
  PUBLIC OPEN SPAC I      0 I      0 I      0 I  100.0 I      0 I      0 I      0 I      0 I      0 I      0 I     .0
                   I      0 I      0 I      0 I     .9 I      0 I      0 I      0 I      0 I      0 I      0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            COLUMN      101      145       87      228      245       73      196        4      280       16     4314
             TOTAL      2.3      3.4      2.0      5.3      5.7      1.7      4.5       .1      6.5       .4    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
    SETTING
                                                       BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  4 OF  8

                          SOCBEH
                  COUNT  I
                 ROW PCT INOT INTE   ROW
                 COL PCT IRACTING   TOTAL
                         I    35  I
SETTING         ---------I--------I
                       1 I    33  I    514
  FRONT YARD             I   6.4  I   11.9
                         I  11.1  I
                        -I--------I
                       2 I    36  I    410
  SIDE YARD              I   8.8  I    9.5
                         I  12.1  I
                        -I--------I
                       3 I    36  I    317
  BACK YARD              I  11.4  I    7.3
                         I  12.1  I
                        -I--------I
                       4 I    43  I    768
  FRONT PORCH            I   5.6  I   17.8
                         I  14.5  I
                        -I--------I
                       6 I    44  I    251
  PRIVATE SIDEWALK       I  17.5  I    5.8
                         I  14.8  I
                        -I--------I
                       7 I    63  I   1165
  PUBLIC SIDEWALK        I   5.4  I   27.0
                         I  21.2  I
                        -I--------I
                       8 I     2  I    101
  STREET                 I   2.0  I    2.3
                         I    .7  I
                        -I--------I
                       9 I    23  I    419
  APRON                  I   5.5  I    9.7
                         I   7.7  I
                        -I--------I
                      10 I     7  I    177
  ALLEY                  I   4.0  I    4.1
                         I   2.4  I
                        -I--------I
                      11 I     0  I      2
  PUBLIC OPEN SPAC       I     0  I     .0
                         I     0  I
                        -I--------I
                  COLUMN      297     4314
                   TOTAL      6.9    100.0
(CONTINUED)
```

209

210

```
* * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
   SETTING                                                     BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  5 OF  8

                   SOCBEH
           COUNT  I
         ROW PCT  IASKING A OFFERING RECEIVIN REFUSING CALL ATT CALL ATT PAY ATTN PRAISING ASKING P SUBMIT T   ROW
         COL PCT  ISSISTANC  ASSISTA G ASSIST  ASSISTA N OWN BE  OTHERS   OTHERS            ERMISSIO O DIRECT  TOTAL
                  I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
SETTING   --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              12  I     1  I    12  I     1  I     1  I     8  I     3  I     8  I     0  I     1  I     7  I    184
  PLAYGROUND      I    .5  I   6.5  I    .5  I    .5  I   4.3  I   1.6  I   4.3  I     0  I    .5  I   3.8  I    4.3
                  I   5.0  I  12.6  I   3.3  I  20.0  I   5.5  I   8.8  I   2.0  I     0  I   7.7  I   4.8  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              13  I     0  I     0  I     0  I     0  I     0  I     0  I     1  I     0  I     0  I     0  I      6
  ACROSS SETTINGS I     0  I     0  I     0  I     0  I     0  I     0  I  16.7  I     0  I     0  I     0  I     .1
                  I     0  I     0  I     0  I     0  I     0  I     0  I    .3  I     0  I     0  I     0  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN       20       95       30        5      145       34      397        4       13      145     4314
           TOTAL       .5      2.2       .7       .1      3.4       .8      9.2       .1       .3      3.4    100.0
(CONTINUED)
```

```
* * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
   SETTING                                                   BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  6 OF  8

                     SOCBEH
               COUNT I
             ROW PCT IASKING Q TELL WHA ADMONISH TEACHING AGREEING SHARE,SH ASSERT O AGGRESSI TEASING  WITHDRAW   ROW
             COL PCT IUESTIONS T TO DO           ,MODELIN          OW,COOPE WNERSHIP ON                ING       TOTAL
                     I     11  I     12  I     13  I     14  I     15  I     16  I     17  I     18  I     19  I     20  I
SETTING     ---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                  12 I      5  I     22  I      1  I      8  I      3  I     16  I      3  I      0  I      4  I      5  I    184
  PLAYGROUND         I    2.7  I   12.0  I     .5  I    4.3  I    1.6  I    8.7  I    1.6  I      0  I    2.2  I    2.7  I    4.3
                     I    3.8  I    8.7  I    2.8  I    2.2  I    4.8  I    3.7  I    5.8  I      0  I    3.3  I    2.2  I
                    -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                  13 I      0  I      0  I      0  I      1  I      0  I      0  I      0  I      0  I      0  I      2  I      6
  ACROSS SETTINGS    I      0  I      0  I      0  I   16.7  I      0  I      0  I      0  I      0  I      0  I   33.3  I     .1
                     I      0  I      0  I      0  I     .3  I      0  I      0  I      0  I      0  I      0  I     .9  I
                    -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
              COLUMN      131       252        36       364        62       428        52        81       122       226      4314
               TOTAL      3.0       5.8        .8       8.4       1.4       9.9       1.2       1.9       2.8       5.2     100.0
(CONTINUED)
```

```
* * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * *
   SETTING                                             BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  7 OF  8

                 SOCBEH
          COUNT  I
        ROW PCT  IJOINING  ASSERTIN REFUSING IGNORING IMITATIN ROLE PLA EMOTIONA EMPATHY  TALK-NOT TALK-NO     ROW
        COL PCT  IGROUP    G SELF                     G        YING     L EXPRES          UNDERST  ONE PART   TOTAL
                 I    21  I    22  I    23  I    24  I    25  I    26  I    27  I    28  I    29  I    30  I
SETTING  --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             12  I     5  I    10  I     4  I    11  I    14  I     0  I     8  I     1  I     8  I     4  I    184
  PLAYGROUND     I   2.7  I   5.4  I   2.2  I   6.0  I   7.6  I     0  I   4.3  I    .5  I   4.3  I   2.2  I    4.3
                 I   5.0  I   6.9  I   4.6  I   4.8  I   5.7  I     0  I   4.1  I  25.0  I   2.9  I  25.0  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             13  I     0  I     1  I     0  I     0  I     1  I     0  I     0  I     0  I     0  I     0  I      6
  ACROSS SETTINGS I    0  I  16.7  I     0  I     0  I  16.7  I     0  I     0  I     0  I     0  I     0  I     .1
                 I     0  I    .7  I     0  I     0  I    .4  I     0  I     0  I     0  I     0  I     0  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
         COLUMN      101      145       87      228      245       73      196        4      280       16     4314
          TOTAL      2.3      3.4      2.0      5.3      5.7      1.7      4.5       .1      6.5       .4    100.0
(CONTINUED)
```

```
* * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * *
   SETTING                                                                BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  8 OF  8

                   SOCBEH
           COUNT  I
         ROW PCT  INOT INTE   ROW
         COL PCT  IRACTING    TOTAL
                  I    35  I
SETTING   --------I--------I
              12  I    10  I    184
  PLAYGROUND      I   5.4  I    4.3
                  I   3.4  I
                 -I--------I
              13  I     0  I      6
  ACROSS SETTINGS I     0  I     .1
                  I     0  I
                 -I--------I
          COLUMN       297     4314
           TOTAL       6.9    100.0

RAW CHI SQUARE =   840.7659 WITH   330 DEGREES OF FREEDOM.  SIGNIFICANCE =       0
CRAMER'S V =    .13311
CONTINGENCY COEFFICIENT =   .40386
LAMBDA (ASYMMETRIC) =   .01683 WITH SETTING  DEPENDENT.          =   .03397 WITH SOCBEH   DEPENDENT.
LAMBDA (SYMMETRIC) =   .02630
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .04421 WITH SETTING  DEPENDENT.          =   .03024 WITH SOCBEH   DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .03591

NUMBER OF MISSING OBSERVATIONS =    52
```

HOUSING PROJECT

written by:
W. Gary Wilkins-Vigil
Frank F. Carrasco

HOUSING PROJECT

Site Description

The Public Housing Project, research site, is located in a large metropolitan area. According to 1977 estimates made by the City's Planning Office, the population of the greater metropolitan area was of 1,325,600. Based on these same estimates, the city population was estimated at 523,700 residents.

Historically, this neighborhood of the housing project, located in the southwest part of the city, had a rapid population growth from 1950 to 1960, followed by a slight decline in 1970. Based on 1970 census information, the neighborhood was in a transition period. A net loss of 3,400 Anglos in 1970 was offset by an increase of 2,800 Chicanos. To date, according to population estimates for this area, Chicanos make up fifty percent of the population.

Focusing on the immediate surrounding vicinity of the research site, there exists a variety of single-family housing and a scattering of multi-family housing. The only visible multi-family unit is located across the street on the east side of the housing project. This multi-family dwelling consists of three apartments.

Aside from residential usage there is little other land use. The other land uses include a high voltage station operated by the Public Service Company of Colorado. This high voltage station is located on the east side of the housing project, across the street. Diagonally across from the research site is a junior high school. Within the vicinity of the junior high school, three blocks from the housing project, a neighborhood grocery store is located.

Diagonally across the street, west of the research site, there is a boys' club, while directly north from the research site there is a girls' club. On the perimeter of the research site bus stops are located.

The housing project itself encompasses one square city-block and houses 250 families. For purposes of this study only the eastern half of the housing project was used. The housing project layout consists of rows comprised of four dwelling units facing east or west. Each dwelling unit is a brick, two-story structure whose length varies from housing six to eight individual family units. Each family unit consists of a living room, kitchen-dining area on the first floor, and bedrooms and bathroom on the second floor.

In addition to dwelling units, the housing project also has some office space for social service agencies. These agencies provide a variety of services to residents. One agency was started in the summer of 1973 with funds provided by the Law Enforcement Assistance Administration. Services provided include such things as personal counseling, job placement, and tutoring. This agency works with youths from ages twelve to eighteen. The immediate goal of the agency is to reduce juvenile recidivism twenty-five percent by providing aternatives. Another agency offers such services as "Operation I.D.", where televisions, stereos, and other household items are stamped with the owner's social security number. A tutorial program is offered for youths ages six through twelve, and referrals are made to other agencies. A Head Start program is also housed in the projects, under the auspices of the Public School System.

In one area there is a small playground with a sand and gravel base. A sidewalk surrounds this open play area, equipped with a two-person swing set, a merry-go-round, and a teeter-totter-go-round. This playground is located in the backyard section of the research site, between buildings.

Also, there is a large fenced playground, equipped with two slides, one at each corner of the playground, two swing sets, a large one with six swings and a small one with one swing, two horse-go-rounds, one merry-go-round, and one jungle-gym set. The base for this playground is also sand and gravel. Directly across from this playground, a health center is located which provides, primarily, preventive care for residents of the larger neighborhood.

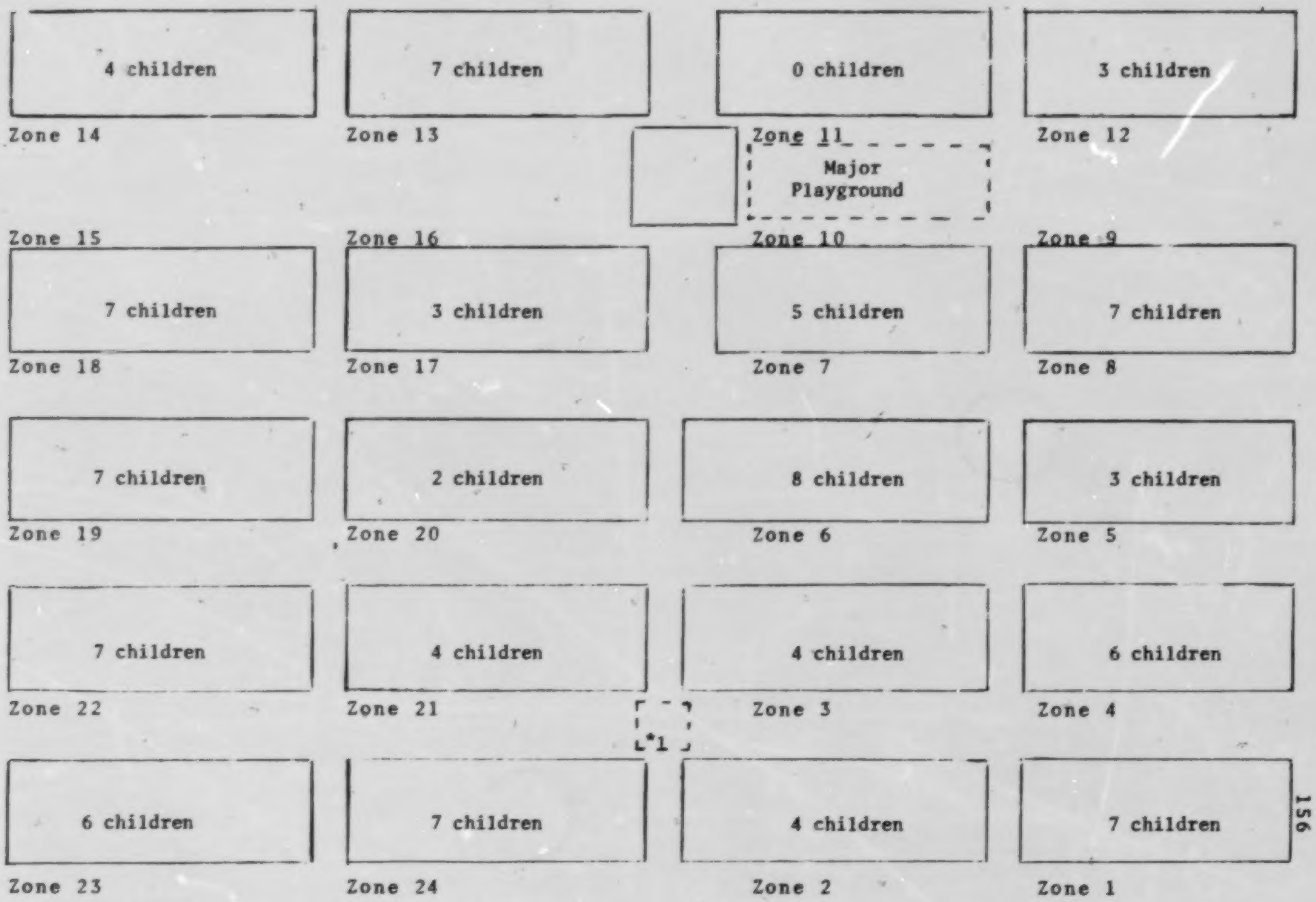
Within the research site is a large parking lot, divided in half by the administration office which has a meeting room, a maintenance equipment storage room, and the office of the manager.

Located in outer sections of the research site are trash dumpsters. On occasion, these dumpsters were utilized by children. The activities observed were: hiding inside, rummaging through trash, or merely sitting on top observing.

Due to the layout of the housing project it is easily subdivided into front and back yards. The front yard area consists of grass, trees and bushes. Each dwelling unit has an overhanging concrete structure a few feet above the entrance to the public sidewalk. At the end of each housing unit fences are located in order to direct traffic. Use of sidewalks: few children were observed playing on the fences either hanging, climbing, or merely sitting on them.

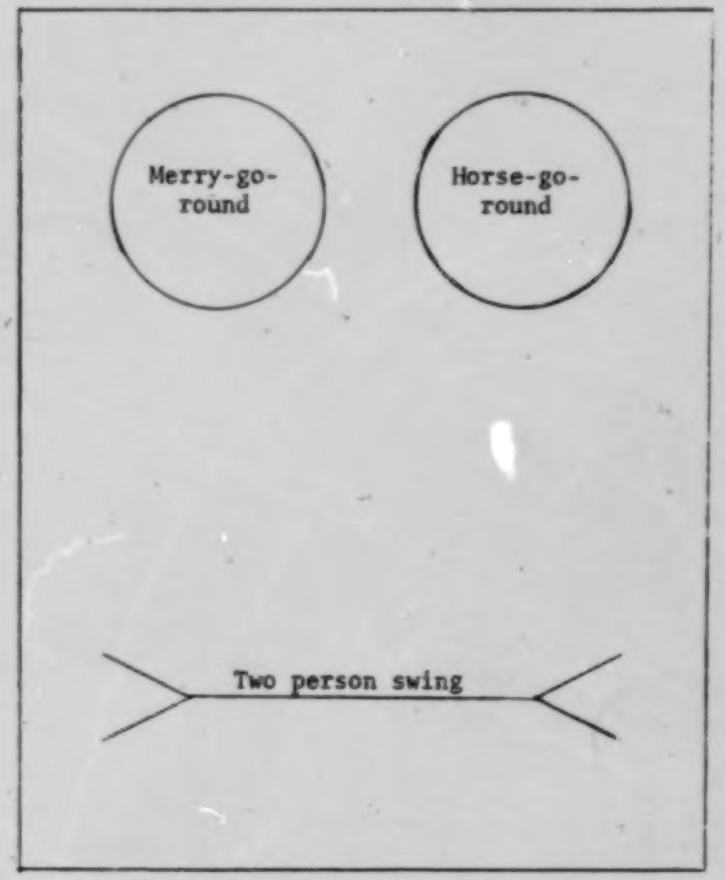
The backyard area is composed of a grassy area where each housing unit has a clothesline with a concrete base. Also in

HOUSING PROJECT CHILD POPULATION

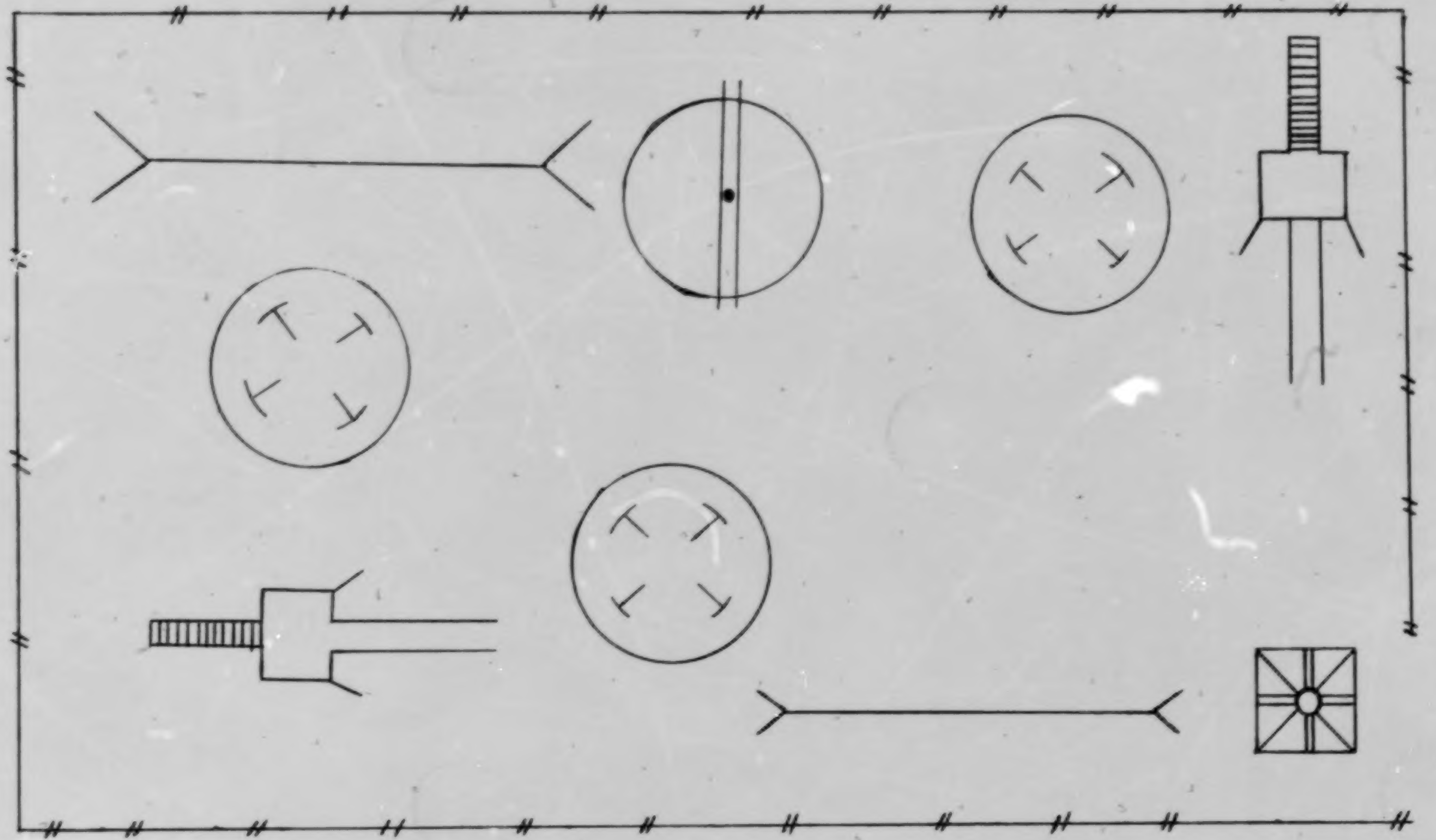

4 children
Zone 14
7 children
Zone 13
0 children
Zone 11
3 children
Zone 12
Major Playground
Zone 15
Zone 16
Zone 10
Zone 9
7 children
Zone 18
3 children
Zone 17
5 children
Zone 7
7 children
Zone 8
7 children
Zone 19
2 children
Zone 20
8 children
Zone 6
3 children
Zone 5
7 children
Zone 22
4 children
Zone 21
4 children
Zone 3
6 children
Zone 4
*1
6 children
Zone 23
7 children
Zone 24
4 children
Zone 2
7 children
Zone 1

*1 Minor Playground

MINOR PLAYGROUND


Merry-go-round
Horse-go-round
Two person swing

MAJOR PLAYGROUND



227

228

the backyard area there are slabs of concrete on the ground outside each dwelling unit giving the appearance of a back porch.

At each end of interior zones with a wide sidewalk, namely zones nineteen and five, are large metal gates, which are usually locked, but can be opened for vehicles.

Overall, there is little apparent room for privacy outdoors due to the corridor image and uniformity throughout the housing project.

The general condition of the research site is one of cleanliness. The vast majority of the residents water and cut their own lawns. Little trash to speak of was found in the area. The dwelling units are well kept, and no broken windows were observed. In essence, it appeared that the residents of this area take pride in their housing and work at maintaining an attractive area.

Socio-Economic Characteristics: Due to the lack of up-dated information, the following was based on 1970 information compiled by the City's Planning Department. The median average income for the city was $14,000 per year. The average educational level obtained was 12.6 years. According to the

National Standard Living Index, the city ranked number eight in the nation.

The planning neighborhood in which the research site was located had a median education of less than three years of high school. More than seventeen percent of all families had incomes of less than the $4,000 per year poverty level.

Focusing in on the research site itself, there were a total of 243 occupied units as of December 1976. The ethnic breakdown was: 58.9% Chicano, 24.1% Anglo, 15.8% Black, and 1.2% "other" (includes Orientals and Native Americans). This information was compiled by the Housing Authority.

In trying to determine the occupation of the residents, a publication entitled "The City Directory" was researched. Due to the lack of response from the residents, occupations could not be determined. Of those that responded, most gave their occupation as retired or unemployed.

The following will give the income a family can earn in order for them to live in the housing projects. The following figures were based on net income:

Household:	Maximum Yearly Earnings:
One-person household	$4,600
Two-person household	5,200
Three-person household	5,600
Four-person household	6,000
Five-person household	6,400
Six-person household	6,800
Seven-person household	7,100
Eight-person household	7,400
Nine-person household	7,600
Ten-person household	7,800

The housing project is governed by the Housing Council. Residents go and air their problems or make suggestions to this body. They, in turn, relay this information to the manager. If suggestions made have to do with improvements or purchasing, then the manager goes to the Housing Authority for approval.

Basically, this body tries to alleviate problems that exist among residents. The research project utilized the Housing Council as the advisory group for this research site. Presentations were made present as to data, and reactions were solicited during the presentation. Also, the Council informed residents what was taking place. The residents, in general, were very cooperative.

Behavioral Observations

Frequencies: At this site a few more children were observed during the early afternoon as opposed to the late afternoon (2,818 vs. 2,547). There were a larger number of males observed outdoors than females (3,177 vs. 2,113). Also, the most observed age group was the six to nine year-olds, middle group (2,472), followed by the three to five year-olds, youngest group (2,175), and the ten to twelve year-olds, oldest group (715).

The all Chicano group of children (2,259) was observed the most frequent, followed by the all non-Chicano (1,235) and mixed group (969). A large percentage of the observations showed no supervision occurring. When supervision did occur, it was direct adult supervision followed by indirect adult supervision and child supervision (4,387; 621; 134; and 107 respectively).

Female adults were observed supervising children more than male adults (449 vs. 210). Also, the majority of children were observed in groups of two. This was followed by one child and children in groups of three. See Figure 1.

FIGURE 1:

Group Size Children and Adult Population

```
I
****************************** (1,176)
I  Child alone
I
************************************* (1,438)
I  Two
I
***************************** (1,101)
I  Three
I
***************** (622)
I  Four
I
************ (437)
I  Five
I
******** (275)
I  Six
I
*** (81)
I  Seven
I
*** (61)
I  Eight
I
** (40)
I  Nine
I
** (33)
I  Ten or more
I
I.........I.........I.........I.........I.........I
0        400       800      1,200     1,600     2,000
FREQUENCY
```

The most observed age configuration was mixed-age children, followed closely by same age children (1,631 vs. 1,619). The child alone or not in a group was observed 1,181. This was followed by children and adults (607) and one child, one adult (144). More mixed sex groups, both males and females were observed than male only or female only groups (2,339; 1,899; and 1,030 respectively).

Environmental settings most utilized were the public sidewalk, front yard and back yard, respectively. These three settings accounted for 56.9% of the location of children. See Figure 2.

At least 62.7% of the observations showed some use of props. The most utilized props were large muscle toys, followed by play equipment and incidental material. See Figure 3.

Moving through space was the most observed behavior. This was followed by socialization and observing. See Figure 4.

FIGURE 2:

Observations in Environmental Settings

```
I
************************* (952)
I  Front Yard
I
***** (141)
I  Side Yard
I
******************** (793)
I  Back Yard
I
****************** (647)
I  Front Porch
I
****** (189)
I  Back Porch
I
******* (251)
I  Private Sidewalk
I
*********************************** (1,308)
I  Public Sidewalk
I
** (31)
I  Street
I
*** (117)
I  Apron
I
* (3)
I  Alley
I
*********** (411)
I  Public Open Space
I
************* (471)
I  Playground
I
** (32)
I  Across Settings
I
* (19)
I  Other
I.........I.........I.........I.........I.........I
0        400       800      1,200     1,600     2,000
FREQUENCY
```

FIGURE 3:

Occurrence of Prop Usage

```
I
************************************************** (1,997)
I  No Props
I
******** (273)
I  Fixed/Semi-Fixed
I
********** (364)
I  Inanimate Materials
I
******* (242)
I  Animate Materials
I
*********** (420)
I  Play Equipment
I
********** (396)
I  Incidental Materials
I
**** (128)
I  Educational Material
I
***** (168)
I  Adult Tools
I
******* (241)
I  Symbolic Toys
I
**** (102)
I  Small Muscle Toys
I
***************** (631)
I  Large Muscle Toys
I
*** (97)
I  Clothing
I
******** (274)
I  Food
** (22)
I  Mixed
I.........I.........I.........I.........I.........I.........
0        400       800      1,200     1,600     2,000
FREQUENCY
```

FIGURE 4:

Occurrence of Behaviors

```
I
**** (107)
I  Formal Information Gathering
I
*************************** (1,050)
I  Socialization
I
******* (245)
I  Games
I
***** (176)
I  Work
I
******* (229)
I  Symbolic Play
I
************ (436)
I  Manipulating Materials
I
****************** (670)
I  Large Muscle Activity
I
********************************** (1,334)
I  Moving Through Space
I
************************ (927)
I  Observing
I
***** (143)
I  Eating
I
** (30)
I  Other
I.........I.........I.........I.........I.........I
0       400       800     1,200     1,600     2,000
FREQUENCY
```

__Findings__: There were no significant differences shown for the early afternoon or late afternoon rounds of data collection.

However, more children were observed during the early afternoon (52.9%) than late afternoon (47.1%).

Child Sex: Environmental usages by both male and female children were somewhat similar. Public sidewalk, front yard, back yard, and front porch were the most popular settings. However, there was a tendency for males to use the front and back yard somewhat more than females (18.4% vs. 16.8%, and 15.6% vs. 13.6%).

Females tended to use the front porch area, relatively private, more than the males (13.5% vs. 11.1%). However, females were observed more in the playground, a more public place, than the males (10.5% vs. 7.7%).

Props, when used, were utilized by both males and females a significant proportion of the time (63.0% male and 62.1% female). There were some differences as to use. Males utilized inanimate material (7.6% vs. 5.7%) and symbolic toys (5.2% vs. 3.6%) more than females. They also utilized large muscle toys significantly more than females (13.7% vs. 8.4%).

Females utilized animate material more than males (5.6% vs. 3.8%) and educational materials (3.2% vs. 1.9%). Interestingly, females utilized play equipment more than males (10.0% vs.

6.4%). Refer to Table 1 at the end of this section.

There were similarities in behavior for both sexes. Perhaps the most significant differences occurred in socialization; females socialized more than males (22.1% vs. 18.0%). On the other hand, males tended to move through space (26.1% vs. 23.2%) and engaged more in symbolic play more than females (5.1% vs. 3.0%). Refer to Table 2 at the end of this section.

Age Differences: All three age categories tended to be in groups of two more often than any other group size. The three to five year-olds were in larger groups more often than the six to nine year-olds or the ten to twelve year-olds. Children in the middle-age category, six to nine years of age, were observed alone more than children in the other two age categories (49.2% vs. 34.7% vs. 16.1%). Children in the oldest age category, ten to twelve years of age, were observed alone the least amount of time (16.1%). Refer to Table 3 at the end of this section.

The findings tend to indicate that children in this area favor groups with children their own age. They also tend to be in groups with children and adult(s) rather than only one child, one adult groups. See Figure 5.

FIGURE 5:

Age Preference by Age Groupings

```
I
***************************** (31.1%)
I  Same Age Children - 3-5 years
I
********************************* (32.3%)
I  Same Age Children - 6-9 years
I
************************* (28.1%)
I  Same Age Children - 10-12 years
I
****************************** (31.5%)
I  Mixed Age Children - 3-5 years
I
******************************** (32.1%)
I  Mixed Age Children - 6-9 years
I
*************************** (29.3%)
I  Mixed Age Children - 10-12 years
I
**** (3.9%)
I  One Child, One Adult - 3-5 years
I
* (1.8%)
I  One Child, One Adult - 6-9 years
I
*** (3.0%)
I  One Child, One Adult - 10-12 years
I
************** (14.5%)
I  Children and Adult(s) - 3-5 years
I
********* (9.7%)
I  Children and Adult(s) - 6-9 years
I
*********** (11.5%)
I  Children and Adult(s) - 10-12 years
I.........I.........I.........I.........I.........I
0         10        20        30        40        50
PERCENTAGE
```

The younger children tended to be in groups involving both males and females. This was true for both the three to five year-olds and, to some extent, for the six to nine year-olds. However, the ten to twelve year-olds tended to be in groups of all males as opposed to the mixed sex group. See Figure 6.

For all three age categories children were observed in all Chicano groups more often than mixed groups and all non-Chicano groups. The mixed group consists of at least one child being Chicano, where as the latter group consists of no Chicano children being present. See Figure 7.

The three to five year-olds were more supervised than the six to nine year-olds and the ten to twelve year-olds. Interestingly, the ten to twelve year-olds were somewhat more supervised than the six to nine year-olds. The six to nine year-olds showed no supervision occurring 87.1% of the time compared with 84.4% for the ten to twelve year-olds and 79.3% for the three to five year-olds. When supervision existed, it was more direct adult supervision as opposed to indirect adult supervision or child supervision. See Figure 8.

Female only adults tended to be with the three to five year-olds and the six to nine year-olds more often than male only adults. However, for the oldest age group, the male only and female only adult were similar. There was only a tenth of a percent difference regarding supervision. See Figure 9.

FIGURE 6:

<u>Sex Preferences by Age</u>

```
I
****************************** (30.2%)
I  Males Only - 3-5 years
I
************************************ (37.0%)
I  Males Only - 6-9 years
I
************************************************* (50.3%)
I  Males Only - 10-12 years
I
***************** (17.0%)
I  Females Only - 3-5 years
I
******************** (21.2%)
I  Females Only - 6-9 years
I
********************* (21.8%)
I  Females Only - 10-12 years
I
*************************************************** (52.8%)
I  Males & Females - 3-5 years
I
**************************************** (41.8%)
I  Males & Females - 6-9 years
I
*************************** (27.8%)
I  Males & Females - 10-12 years
I.........I.........I.........I.........I.........I
0        10        20        30        40        50
PERCENTAGE
```

FIGURE 7:

Ethnic Preference by Age Grouping

```
I
*************************************************  (48.8%)
I  All Chicano - 3-5 years
I
*************************************************** (51.1%)
I  All Chicano - 6-9 years
I
******************************************************** (55.8%)
I  All Chicano - 10-12 years
I
*********************** (22.5%)
I  Mixed - 3-5 years
I
********************** (21.7%)
I  Mixed - 6-9 years
I
******************* (19.1%)
I  Mixed - 10-12 years
I
***************************** (28.7%)
I  All Non-Chicano - 3-5 years
I
*************************** (27.2%)
I  All Non-Chicano - 6-9 years
I
************************* (25.0%)
I  All Non-Chicano - 10-12 years
I...........I.........I.........I.........I.........I
0          10        20        30        40        50
PERCENTAGE
```

FIGURE 8:

Supervision According to Age Grouping

```
I
************** (14.4%)
I  Direct Adult Supervision - 3-5 years
I
********** (9.7%)
I  Direct Adult Supervision - 6-9 years
I
*********** (11.4%)
I  Direct Adult Supervision - 10-12 years
I
**** (3.5%)
I  Indirect Adult Supervision - 3-5 years
I
* (1.6%)
I  Indirect Adult Supervision - 6-9 years
I
** (2.4%)
I  Indirect Adult Supervision - 10-12 years
I
** (2.7%)
I  Child Supervision - 3-5 years
I
* (1.5%)
I  Child Supervision - 6-9 years
I
* (1.7%)
I  Child Supervision - 10-12 years
I.........I.........I.........I.........I.........I
0         10        20        30        40        50
```

FIGURE 9:

Adult Sex Supervision by Age Grouping

```
I
***** (4.2%)
I  Males Only - 3-5 years
I
**** (3.2%)
I  Males Only - 6-9 years
I
****** (6.0%)
I  Males Only - 10-12 years
I
************* (11.8%)
I  Females Only - 3-5 years
I
******* (6.6%)
I  Females Only - 6-9 years
I
****** (5.9%)
I  Females Only - 10-12 years
I
** (1.8%)
I  Males & Females - 3-5 years
I
* (1.4%)
I  Males & Females - 6-9 years
I
* (1.7%)
I  Males & Females - 10-12 years
I....I.....I.....I.....I.....I
0    5    10    15    20    25
PERCENTAGE
```

The most utilized settings for all three age groups were the public sidewalk and front yard. The least used settings were the street, apron, and side yard.

The front yard area was most utilized by the six to nine year-olds (51.5%) as opposed to the three to five year-olds (35.7%) and the ten to twelve year-olds (12.8%). This same age group tended to be on front porches more than the youngest or oldest groups (46.1%, 40.2%, and 13.7% respectively). The youngest age group utilized public open spaces and playground areas more than the other two age groups. Refer to Table 4 at the end of this section.

The most used props by the youngest age group were play equipment, large muscle toys, and inanimate material. The middle age group utilized large muscle toys, incidental material and inanimate material. The oldest age group also used large muscle toys, incidental material and adult tools. When compared to the other two groups, the middle age group used educational materials (46.1%) more than the youngest (31.3%) and oldest age groups (22.7%). Refer to Table 5 at the end of this section.

As might be expected, the three to five year-olds engaged in little work activity, while the middle age group was observed doing more work than the oldest age group (47.7%, 34.7%, and 17.6% respectively). Also, this same middle age group engaged in more symbolic play (53.3%) than the youngest (42.4% or oldest age groups (4.4%). The youngest group tended to do more observing (47.4%) than the middle age group (45.1%) or oldest age group (7.6%). Refer to Table 6 at the end of this section.

Ethnicity: The greater percentage of observations showed the all Chicano group 50.4%, mixed group 21.9%, and the all non-Chicano 27.7%. Chicano children were observed in groups of two or more 71.8% of the time. The mixed group tended to be in groups of three the majority of the time. In configuration of sex, the all Chicano group was observed with males only 41.7% of the time, followed by groups of both males and females 37.7% of the time, and females only 20.6% of the time. The The mixed group tended to be in groups containing both males and females (61.2%), followed by males only (23.3%), and females only (15.5%). The all non-Chicano gro[illegible] followed the same pattern as the mixed ethnic groups of both males and females observed (43.9%), followed by males only (33.3%) and females only (22.5%) Females were observed outdoors the least amount of the time.

Overall, when supervision occurred, the all Chicano child or group was supervised 51.6% of the time compared to 24.5% for the mixed age group and 23.9% for the all non-Chicano group. This same pattern occurred for indirect supervision, where the all Chicano child or group was more indirectly supervised than the other two groups (56.2% all Chicano, 26.7% all non-Chicano, and 17.1% mixed group).

Chicano males and females were supervising more than the other two groups of adults (mixed and all non-Chicano). The Chicano female adult supervised more than the Chicano male adult. Refer to Table 7 at the end of this section.

Chicano children and all non-Chicano children were observed the greatest percent of the time on the public sidewalk (24.3% and 24.2% respectively). The mixed group was observed on the front yard 22.4% of the time. The side yard was utilized by the all Chicano group more than any of the other two groups. Refer to Table 8 at the end of this section.

When compared to the other two groups, the all non-Chicano group used more small muscle toys (40.2%) than the all-Chicano group (34.8%) or the mixed group (25.0%). Aside from the small muscle toys, Chicano children utilized the other categories for props the majority of the time. However, when compared within the same group, the mixed group used play equipment more than the all Chicano group. Refer to Table 9 at the end of this section.

The all Chicano group tended to move through space, socialize and observe, while the mixed ethnic group socialized, observed and engaged in large muscle activity. The all non-Chicano group moved through space, observed and socialized. Refer to Table 10 at the end of this section.

Supervision: There was more direct supervision than indirect supervision (11.9% vs. 2.5% respectively). For configuration of age, same age children were not supervised, while mixed age children showed 5.8% child supervision. One child to one adult showed 84.7% direct supervision and 15.3% indirect supervision. This same trend happened for the children and adult(s) group where direct supervision occurred 81.8% and indirect supervision 18.2%.

Female adults supervised children more than the male adults (8.6% vs. 4.0%). Male children were more directly supervised than female children (55.9% vs. 44.1%). This held true for indirect supervision where the male was supervised more than the female (61.4% vs. 38.6%).

Direct adult supervision occurred the majority of the time on public sidewalk, back yard and front yard. These same settings were where the majority of the indirect adult supervision occurred. Refer to Table 11 at the end of this section.

The behavior most observed for direct supervision was socialization. For indirect supervision it was moving through space. The least directly supervised behavior was symbolic play. Refer to Table 12 at the end of this section.

Group Size: More children were observed in groups than alone. The child alone was observed 22.7%, while children in groups were observed 77.3%. Males tended to be in groups of two the majority of the time (45.1%), followed by groups of both males and females (31.9%) and females only (23.0%). However, as the size of the group increased, groupings of both males and females were observed the majority of the time as opposed to male only or female only groups. The larger the group, the more they socialized.

Configuration of Age: More male than female children were observed alone (66.3% vs. 33.7%). Male children tended to be with one adult more often than female children (60.3% vs. 39.7%). For this same relationship of one child to one adult, three to five year-olds were observed 56.3% compared to the six to nine year-olds (29.9%) and the ten to twelve year-olds (13.9%).

The most popular settings for same age children and mixed age children were the front yard, side yard, back yard and front porch. The child alone tended to be on public sidewalks. Refer to Table 13 at the end of this section.

Props used by the child alone were adult tools, fixed/semi-fixed and large muscle toys. As for the same age and mixed age children, they seemed to favor play equipment more often than the child alone. Refer to table 14 at the end of this section.

For behavior, the child alone was observed doing more work, manipulating material, moving through space, and observing. However, the child alone tended to engage in less large muscle activity than same age or mixed age children.

Configuration of Sex: The three to five year-olds were in mixed groups more often than the six to nine year-olds or the ten to twelve year-olds (48.3%, 43.4%, and 8.3% respectively). When both males and females were in the same group, they socialized more than the male only or female only groups.

Also, groups of both males and females engaged in games more often than the other two, male only - female only. Refer to Table 15 at the end of this section.

Settings: The setting with the least amount of props was the playground. This was followed by cross-settings and side yard. Fixed/semi-fixed material usage was observed on the street, public open spaces, and the apron area. Inanimate material was used on the side yard, back porch, and backyard area. Animate material was utilized more often on the front porch, side yard and back porch. Large muscle toys were used on the public sidewalk, private sidewalk, and back yard. Refer to Table 16 at the end of this section.

Formal information gathering was distributed throughout the environmental settings. Socialization occurred on the side yard, front porch, and back porch. Symbolic play occurred on the front yard and back porch. Large muscle activity was observed on the playground, side yard, and public open spaces. Observing was done on the front porch, back porch, and apron area. Refer to Table 17 at the end of this section.

Props: The behaviors that least involved prop use were moving through space, socializing and observing. Behaviors associated with fixed/semi-fixed materials were large muscle, observing, and socializing. The greatest activity with inanimate material was manipulating, socializing, and moving through space. Animate materials were associated with large muscle activity, moving through space, and socialization. Incidental material was used with manipulation and in moving through space, while educational material was used in moving through space and formal information gathering. Adult tools were used for work and manipulation. Symbolic toys were used for symbolic play and socialization. Large muscle toys were used in moving through space and observing, while small muscle toys were used for observing and socializing. Refer to Table 18 at the end of this section.

Discussion and Conclusions

Male children were observed outdoors more than female children. This may be due to questions of safety in an urban setting. It may be felt that males are more capable of handling themselves in a crisis situation as opposed to females.

When females are outdoors, they tend to engage in similar activities as the males. However, females tend to socialize more than males, and use play equipment more. This socialization activity may account for the fact that fewer females were observed alone as opposed to males.

On the other hand, male children engaged in moving through space, large muscle activity, and symbolic play more than females. Because of these differences one may infer that males tend to be more active than females. This is supported by the large muscle activity, moving through space and symbolic play exhibited by males.

Although a large percentage of the children were observed without props, this may be accounted for when one looks at three most exhibited behaviors. These three behaviors were moving through space, socializing, and observing. For these behaviors no props are necessary.

Children in this area tend to be more social and feel more comfortable in groups. Through this they are able to express themselves in a relaxed atmosphere. However, when one examines the classroom environment where one is expected to be quiet until asked to speak, this seems contrary to what is taking place in this area. By conjecture one may assume that there is a high degree of observationa learning taking place. Observational learning theory, as proposed by Millar (1968), is a technique of learning something new by observing. This observational learning is supported by the large percentage of observing taking place.

In 1972 a study by Smart and Smart found the greatest number of children outdoors to be between the ages of nine and eleven. For our study, the six to nine year-olds or middle-aged group were observed outdoors the majority of the time, followed by the three to five year-olds and the ten to twelve year-olds, respectively. Also in research conducted by Piaget, he found children age three in play groups of three children or less. He concluded that this was all the three year-old was capable of handling. However, he found that as age increased so did the size of the group. He also found that children ages eight through twelve hate to play alone.

For this research site the three to five year-olds tended to be in larger groups as compared to the other two age groups. The three to five year-olds were observed in groups of three or more the majority of the time. Although due to the categorization of the ages it would seem for this research site that Chicano children are in larger groups at a younger age than what Piaget found. However, the data did show the oldest group, ten to twelve years of age, to be alone the least amount of time when compared to the other two age groups.

Overall, children in this area tended to be with children either younger or older than themselves as opposed to children their same age. This may have some consequence when they are in a classroom environment where children tend to be the same age. Perhaps, due to the tendency for mixed age children together in their neighborhood environment, the school could utilize the older children as teachers.

As our data shows, very few Chicano children were observed alone. This, perhaps, enhances what Ramirez and Castenada (1974) found, that Chicano children are field dependent and learn better in groups. That is, Chicano children feel better in group learning and when the teacher becomes an active participant in the learning experience.

One finding that confirms the findings of Piaget is that as children get older they tend to prefer the same sex group. However, our findings indicate that overall groups of both males and females are more popular.

Chicano male and female adults were more involved in direct supervision of the children, as opposed to indirect supervision. That is, adults were actively engaged in the children's activities. For the younger age groups, three to five years and six to nine years, female adults supervised more. The oldest age group, ten to twelve years, was supervised equally by the male only and the female only adult. Thus indicating that the male Chicano adult does take an active part in the rearing of his child. This finding has a greater implication because the Chicano child appears to be attuned to having the adult as an active participant in the activity rather than merely an observer or a facilitator.

One last finding regarding supervision is that both adult males and females engage in socializing with the child. Therefore, it can be construed that Chicano children are used to interact verbally with adults whenever they are present.

```
* * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
   CHSEX     CHILD SEX                                       BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                 PROP
          COUNT I
        ROW PCT IFIXED.SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU   ROW
        COL PCT IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS        TOYS   SCLE TOY SCLE TOY  TOTAL
                I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
CHSEX   --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              1 I   161  I   240  I   121  I   204  I   233  I    60  I   111  I   165  I    65  I   435  I   1998
  MALE          I   8.1  I  12.0  I   6.1  I  10.2  I  11.7  I   3.0  I   5.6  I   8.3  I   3.3  I  21.8  I   60.4
                I  59.9  I  66.7  I  50.4  I  49.3  I  59.6  I  47.2  I  68.1  I  68.8  I  64.4  I  71.0  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              2 I   108  I   120  I   119  I   210  I   158  I    67  I    52  I    75  I    36  I   178  I   1310
  FEMALE        I   8.2  I   9.2  I   9.1  I  16.0  I  12.1  I   5.1  I   4.0  I   5.7  I   2.7  I  13.6  I   39.6
                I  40.1  I  33.3  I  49.6  I  50.7  I  40.4  I  52.8  I  31.9  I  31.3  I  35.6  I  29.0  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
         COLUMN     269       360       240       414       391       127       163       240       101       613      3308
          TOTAL     8.1      10.9       7.3      12.5      11.8       3.8       4.9       7.3       3.1      18.5     100.0


                 PROP
          COUNT I
        ROW PCT ICLOTHING FOOD     MIXED        ROW
        COL PCT I                              TOTAL
                I    11  I    12  I    13  I
CHSEX   --------I--------I--------I--------I
              1 I    48  I   143  I    12  I   1998
  MALE          I   2.4  I   7.2  I    .6  I   60.4
                I  50.0  I  52.4  I  57.1  I
               -I--------I--------I--------I
              2 I    48  I   130  I     9  I   1310
  FEMALE        I   3.7  I   9.9  I    .7  I   39.6
                I  50.0  I  47.6  I  42.9  I
               -I--------I--------I--------I
         COLUMN      96       273        21      3308
          TOTAL     2.9       8.3        .6     100.0

RAW CHI SQUARE =    98.72510 WITH    12 DEGREES OF FREEDOM.  SIGNIFICANCE =    .0000
CRAMER'S V =    .17276
CONTINGENCY COEFFICIENT =    .17023
LAMBDA (ASYMMETRIC) =    .00992 WITH CHSEX    DEPENDENT.          =    .01187 WITH PROP     DEPENDENT.
LAMBDA (SYMMETRIC) =    .01124
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .02233 WITH CHSEX    DEPENDENT.          =    .00632 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .00985

NUMBER OF MISSING OBSERVATIONS =  2062
```

TABLE 1

```
* * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * *
    CHSEX      CHILD SEX                                          BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE   1 OF   1

                BEHAVIOR
             COUNT  I
            ROW PCT IFORMAL I SOCIALIZ GAMES     WORK      SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING      ROW
            COL PCT INF GAT-E ING                          PLAY     TING     SCLE ACT OUGH SPA G                   TOTAL
                    I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
CHSEX       --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  1 I    55  I   571  I   156  I   107  I   161  I   264  I   382  I   827  I   547  I    76  I   3164
  MALE              I   1.7  I  18.0  I   4.9  I   3.4  I   5.1  I   8.3  I  12.1  I  26.1  I  17.3  I   2.4  I   60.0
                    I  52.9  I  55.1  I  65.3  I  63.3  I  71.6  I  61.1  I  58.1  I  62.9  I  59.5  I  53.5  I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  2 I    49  I   466  I    83  I    62  I    64  I   168  I   275  I   488  I   372  I    66  I   2105
   FEMALE           I   2.3  I  22.1  I   3.9  I   2.9  I   3.0  I   8.0  I  13.1  I  23.2  I  17.7  I   3.1  I   40.0
                    I  47.1  I  44.9  I  34.7  I  36.7  I  28.4  I  38.9  I  41.9  I  37.1  I  40.5  I  46.5  I
                   -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             COLUMN     104      1037      239      169      225      432      657      1315      919      142      5269
              TOTAL     2.0      19.7      4.5      3.2      4.3      8.2     12.5      25.0     17.4      2.7     100.0


                BEHAVIOR
             COUNT  I
            ROW PCT IEMOTIONA   ROW
            COL PCT IL EXPRES  TOTAL
                    I    11  I
CHSEX       --------I--------I
                  1 I    18  I  3164
  MALE              I    .6  I  60.0
                    I  60.0  I
                   -I--------I
                  2 I    12  I  2105
   FEMALE           I    .6  I  40.0
                    I  40.0  I
                   -I--------I
             COLUMN      30     5269
              TOTAL      .6    100.0

RAW CHI SQUARE =     37.10920 WITH    10 DEGREES OF FREEDOM.  SIGNIFICANCE =    .0001
CRAMER'S V =    .08392
CONTINGENCY COEFFICIENT =     .08363
LAMBDA (ASYMMETRIC) =         0 WITH CHSEX    DEPENDENT.          =         0 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =          0
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .00530 WITH CHSEX    DEPENDENT.          =    .00176 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .00264

NUMBER OF MISSING OBSERVATIONS =    101
```

TABLE 2

```
* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
   AGECAT                                                 BY  GPSIZE    GROUP SIZE CHILDREN AND ADULTS
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                    GPSIZE
             COUNT  I
           ROW PCT  I
           COL PCT  I                                                                                          ROW
                    I        1  I        2  I        3  I        4  I        5  I        6  I        7  I        8  I        9  I       10  I    TOTAL
AGECAT     ---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                 1  I      407  I      533  I      495  I      297  I      214  I      103  I       29  I       37  I        7  I       31  I    2153
  3 TO 5 YEARS      I     18.9  I     24.8  I     23.0  I     13.8  I      9.9  I      4.8  I      1.3  I      1.7  I       .3  I      1.4  I    40.8
                    I     34.7  I     37.1  I     45.1  I     47.7  I     49.0  I     37.5  I     35.8  I     60.7  I     17.5  I     54.4  I
                   -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                 2  I      578  I      682  I      482  I      261  I      184  I      147  I       41  I       17  I       30  I       20  I    2442
  6 TO 9 YEARS      I     23.7  I     27.9  I     19.7  I     10.7  I      7.5  I      6.0  I      1.7  I       .7  I      1.2  I       .8  I    46.2
                    I     49.2  I     47.5  I     43.9  I     42.0  I     42.1  I     53.5  I     50.6  I     27.9  I     75.0  I     35.1  I
                   -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                 3  I      189  I      222  I      121  I       64  I       39  I       25  I       11  I        7  I        3  I        6  I     687
  10 TO 12 YEARS    I     27.5  I     32.3  I     17.6  I      9.3  I      5.7  I      3.6  I      1.6  I      1.0  I       .4  I       .9  I    13.0
                    I     16.1  I     15.4  I     11.0  I     10.3  I      8.9  I      9.1  I     13.6  I     11.5  I      7.5  I     10.5  I
                   -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
            COLUMN        1174        1437        1098         622         437         275          81          61          40          57       5282
             TOTAL        22.2        27.2        20.8        11.8         8.3         5.2         1.5         1.2          .8         1.1      100.0

RAW CHI SQUARE =    107.15305 WITH    18 DEGREES OF FREEDOM.  SIGNIFICANCE =    .0000
CRAMER'S V =    .10071
CONTINGENCY COEFFICIENT =    .14101
LAMBDA (ASYMMETRIC) =    .03873 WITH AGECAT   DEPENDENT.           =         0 WITH GPSIZE   DEPENDENT.
LAMBDA (SYMMETRIC) =    .01645
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .01033 WITH AGECAT   DEPENDENT.           =    .00558 WITH GPSIZE   DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .00725

NUMBER OF MISSING OBSERVATIONS =    88
```

TABLE 3

TABLE 4

```
* * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
    AGECAT                                                    BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                    SETTING
              COUNT  I
            ROW PCT  IFRONT YA SIDE YAR BACK YAR FRONT PO BACK POR PRIVATE  PUBLIC S STREET   APRON    ALLEY       ROW
            COL PCT  IRD       D        D        RCH      CH       SIDEWALK IDEWALK                             TOTAL
                     I      1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
AGECAT      ---------I---------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  1  I   340  I    62  I   349  I   260  I    88  I    91  I   462  I    11  I    41  I     0  I  2174
  3 TO 5 YEARS       I  15.6  I   2.9  I  16.1  I  12.0  I   4.0  I   4.2  I  21.3  I    .5  I   1.9  I     0  I  40.6
                     I  35.7  I  44.0  I  44.0  I  40.2  I  46.6  I  36.3  I  35.4  I  35.5  I  35.0  I     0  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  2  I   490  I    62  I   346  I   298  I    80  I   119  I   609  I    13  I    59  I     0  I  2470
  6 TO 9 YEARS       I  19.8  I   2.5  I  14.0  I  12.1  I   3.2  I   4.8  I  24.7  I    .5  I   2.4  I     0  I  46.1
                     I  51.5  I  44.0  I  43.6  I  46.1  I  42.3  I  47.4  I  46.7  I  41.9  I  50.4  I     0  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     I   122  I    17  I    98  I    89  I    21  I    41  I   233  I     7  I    17  I     3  I   715
  10 TO 12 YEARS     I  17.1  I   2.4  I  13.7  I  12.4  I   2.9  I   5.7  I  32.6  I   1.0  I   2.4  I    .4  I  13.3
                     I  12.8  I  12.1  I  12.4  I  13.8  I  11.1  I  16.3  I  17.9  I  22.6  I  14.5  I 100.0  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             COLUMN      952      141      793      647      189      251     1304       31      117        3     5359
              TOTAL     17.8      2.6     14.8     12.1      3.5      4.7     24.3       .6      2.2       .1    100.0


                    SETTING
              COUNT  I
            ROW PCT  IPUBLIC O PLAY GRO ACROSS S OTHER       ROW
            COL PCT  IPEN SPAC UND      ETTINGS              TOTAL
                     I     11  I    12  I    13  I    14  I
AGECAT      ---------I--------I--------I--------I--------I
                  1  I   187  I   256  I    19  I     8  I  2174
  3 TO 5 YEARS       I   8.6  I  11.8  I    .9  I    .4  I  40.6
                     I  45.5  I  54.5  I  61.3  I  42.1  I
                    -I--------I--------I--------I--------I
                  2  I   179  I   197  I     9  I     9  I  2470
  6 TO 9 YEARS       I   7.2  I   8.0  I    .4  I    .4  I  46.1
                     I  43.6  I  41.9  I  29.0  I  47.4  I
                    -I--------I--------I--------I--------I
                  3  I    45  I    17  I     3  I     2  I   715
  10 TO 12 YEARS     I   6.3  I   2.4  I    .4  I    .3  I  13.3
                     I  10.9  I   3.6  I   9.7  I  10.5  I
                    -I--------I--------I--------I--------I
             COLUMN      411      470       31       19     5359
              TOTAL      7.7      8.8       .6       .4    100.0

RAW CHI SQUARE =   142.18842 WITH    26 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =   .11518
CONTINGENCY COEFFICIENT =   .16077
LAMBDA (ASYMMETRIC) =   .03150 WITH AGECAT   DEPENDENT.          =        0 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =   .01310
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .01358 WITH AGECAT   DEPENDENT.          =   .00834 WITH SETTING  DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .00864
```

TABLE 5

```
* * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * *
   AGECAT                                                                  BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  1 OF  1

                PROP
         COUNT  I
       ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU   ROW
       COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS        TOYS   SCLE TOY SCLE TOY  TOTAL
                I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
AGECAT          --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     1 I    124 I    172 I    108 I    234 I    151 I     40 I     32 I    103 I     39 I    186 I   1335
  3 TO 5 YEARS         I    9.3 I   12.9 I    8.1 I   17.5 I   11.3 I    3.0 I    2.4 I    7.7 I    2.9 I   13.9 I   39.8
                       I   45.4 I   47.3 I   44.6 I   55.7 I   38.2 I   31.3 I   19.0 I   42.7 I   38.2 I   29.6 I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     2 I    123 I    175 I     94 I    171 I    182 I     59 I     92 I    126 I     55 I    306 I   1577
  6 TO 9 YEARS         I    7.8 I   11.1 I    6.0 I   10.8 I   11.5 I    3.7 I    5.8 I    8.0 I    3.5 I   19.4 I   47.0
                       I   45.1 I   48.1 I   38.8 I   40.7 I   46.1 I   46.1 I   54.8 I   52.3 I   53.9 I   48.7 I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     3 I     26 I     17 I     40 I     15 I     62 I     29 I     44 I     12 I      8 I    136 I    442
  10 TO 12 YEARS       I    5.9 I    3.8 I    9.0 I    3.4 I   14.0 I    6.6 I   10.0 I    2.7 I    1.8 I   30.8 I   13.2
                       I    9.5 I    4.7 I   16.5 I    3.6 I   15.7 I   22.7 I   26.2 I    5.0 I    7.8 I   21.7 I
                      -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                COLUMN      273      364      242      420      395      128      168      241      102      628     3354
                 TOTAL      8.1     10.9      7.2     12.5     11.8      3.8      5.0      7.2      3.0     18.7    100.0


                PROP
         COUNT  I
       ROW PCT  ICLOTHING FOOD     MIXED      ROW
       COL PCT  I                             TOTAL
                I     11 I     12 I     13 I
AGECAT          --------I--------I--------I--------I
                     1 I     26 I    114 I      6 I   1335
  3 TO 5 YEARS         I    1.9 I    8.5 I     .4 I   39.8
                       I   26.8 I   41.6 I   27.3 I
                      -I--------I--------I--------I
                     2 I     54 I    129 I     11 I   1577
  6 TO 9 YEARS         I    3.4 I    8.2 I     .7 I   47.0
                       I   55.7 I   47.1 I   50.0 I
                      -I--------I--------I--------I
                     3 I     17 I     31 I      5 I    442
  10 TO 12 YEARS       I    3.8 I    7.0 I    1.1 I   13.2
                       I   17.5 I   11.3 I   22.7 I
                      -I--------I--------I--------I
                COLUMN       97      274       22     3354
                 TOTAL      2.9      8.2       .7    100.0

RAW CHI SQUARE =   231.11267 WITH    24 DEGREES OF FREEDOM.  SIGNIFICANCE =        0
CRAMER'S V =    .18562
CONTINGENCY COEFFICIENT =    .25390
LAMBDA (ASYMMETRIC) =    .04389 WITH AGECAT   DEPENDENT.          =    .01761 WITH PROP     DEPENDENT.
LAMBDA (SYMMETRIC) =    .02798
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .03698 WITH AGECAT   DEPENDENT.          =    .01542 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .02177
```

TABLE 6

```
* * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
   AGECAT                                                 BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *   PAGE  1 OF  1

                BEHAVIOR
         COUNT  I
       ROW PCT  IFORMAL I SOCIALIZ GAMES     WORK      SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING       ROW
       COL PCT  INF GAT-E ING                           PLAY     TING     SCLE ACT OUGH SPA G                     TOTAL
                I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
AGECAT  --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               1 I     38 I    429 I     61 I     31 I     97 I    197 I    280 I    509 I    439 I     70 I   2165
  3 TO 5 YEARS   I    1.8 I   19.8 I    2.8 I    1.4 I    4.5 I    9.1 I   12.9 I   23.5 I   20.3 I    3.2 I   40.5
                 I   35.5 I   40.9 I   25.0 I   17.6 I   42.4 I   45.2 I   42.0 I   38.2 I   47.4 I   49.0 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2 I     55 I    485 I    122 I     84 I    122 I    213 I    318 I    571 I    418 I     59 I   2461
  6 TO 9 YEARS   I    2.2 I   19.7 I    5.0 I    3.4 I    5.0 I    8.7 I   12.9 I   23.2 I   17.0 I    2.4 I   46.1
                 I   51.4 I   46.2 I   50.0 I   47.7 I   53.3 I   48.9 I   47.7 I   42.8 I   45.1 I   41.3 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               3 I     14 I    136 I     61 I     61 I     10 I     26 I     68 I    253 I     70 I     14 I    715
  10 TO 12 YEARS I    2.0 I   19.0 I    8.5 I    8.5 I    1.4 I    3.6 I    9.5 I   35.4 I    9.8 I    2.0 I   13.4
                 I   13.1 I   13.0 I   25.0 I   34.7 I    4.4 I    6.0 I   10.2 I   19.0 I    7.6 I    9.8 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN      107     1050      244      176      229      436      666     1333      927      143     5341
           TOTAL      2.0     19.7      4.6      3.3      4.3      8.2     12.5     25.0     17.4      2.7    100.0


                BEHAVIOR
         COUNT  I
       ROW PCT  IEMOTIONA   ROW
       COL PCT  IL EXPRES   TOTAL
                I     11 I
AGECAT  --------I--------I
               1 I     14 I   2165
  3 TO 5 YEARS   I     .6 I   40.5
                 I   46.7 I
                -I--------I
               2 I     14 I   2461
  6 TO 9 YEARS   I     .6 I   46.1
                 I   46.7 I
                -I--------I
               3 I      2 I    715
  10 TO 12 YEARS I     .3 I   13.4
                 I    6.7 I
                -I--------I
          COLUMN       30     5341
           TOTAL       .6    100.0

RAW CHI SQUARE =   243.63608 WITH    20 DEGREES OF FREEDOM.  SIGNIFICANCE =        0
CRAMER'S V =    .15102
CONTINGENCY COEFFICIENT =    .20887
LAMBDA (ASYMMETRIC) =    .01111 WITH AGECAT   DEPENDENT.          =        0 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =    .00465
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .02258 WITH AGECAT   DEPENDENT.          =   .01105 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .01484
```

```
* * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
   ETHNICIT                                                   BY  ADSEX     ADULT SEX
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                 ADSEX
         COUNT  I
         ROW PCT INO ADULT MALES ON FEMALES  MALES AN   ROW
         COL PCT IS        LY       ONLY     D FEMALE  TOTAL
                 I     0  I     1  I     2  I     3  I
ETHNICIT   --------I--------I--------I--------I--------I
                 1 I  1893  I   107  I   173  I    34  I  2207
  ALL CHICANO      I  85.8  I   4.8  I   7.8  I   1.5  I  50.6
                   I  50.3  I  64.1  I  47.0  I  52.3  I
                  -I--------I--------I--------I--------I
                 2 I   805  I    35  I    89  I    15  I   944
  MIXED ETHNIC     I  85.3  I   3.7  I   9.4  I   1.6  I  21.7
                   I  21.4  I  21.0  I  24.2  I  23.1  I
                  -I--------I--------I--------I--------I
                 3 I  1062  I    25  I   106  I    16  I  1209
  ALL NON-CHICANO  I  87.8  I   2.1  I   8.6  I   1.3  I  27.7
                   I  28.2  I  15.0  I  28.8  I  24.6  I
                  -I--------I--------I--------I--------I
          COLUMN      3760      167      368       65     4360
           TOTAL      85.2      3.8      8.4      1.5    100.0

RAW CHI SQUARE =    18.84513 WITH     6 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0044
CRAMER'S V =   .04649
CONTINGENCY COEFFICIENT =    .06560
LAMBDA (ASYMMETRIC) =        0 WITH ETHNICIT DEPENDENT.          =        0 WITH ADSEX    DEPENDENT.
LAMBDA (SYMMETRIC) =        0
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .00226 WITH ETHNICIT DEPENDENT.          =   .00445 WITH ADSEX    DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .00300

NUMBER OF MISSING OBSERVATIONS =  1010
```

TABLE 7

TABLE 8

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* * * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
   ETHNICIT                                                          BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *   PAGE  1 OF  1

                          SETTING
                  COUNT  I
                  ROW PCT IFRONT YA SIDE YAR BACK YAR FRONT PO BACK POR PRIVATE  PUBLIC S STREET   APRON    ALLEY        ROW
                  COL PCT IRD       D        D        RCH      CH       SIDEWALK IDEWALK                                  TOTAL
                          I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
ETHNICIT         --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                       1 I    399 I     78 I    364 I    287 I     82 I    108 I    549 I     10 I     58 I      0 I   2257
  ALL CHICANO            I   17.7 I    3.5 I   16.1 I   12.7 I    3.6 I    4.8 I   24.3 I     .4 I    2.6 I      0 I   50.6
                         I   47.1 I   68.4 I   53.1 I   50.7 I   47.1 I   51.7 I   54.6 I   83.3 I   56.3 I      0 I
                        -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                       2 I    217 I     15 I    162 I    136 I     34 I     37 I    158 I      0 I     20 I      0 I    969
  MIXED ETHNIC           I   22.4 I    1.5 I   16.7 I   14.0 I    3.5 I    3.8 I   16.3 I      0 I    2.1 I      0 I   21.7
                         I   25.6 I   13.2 I   23.6 I   24.0 I   19.5 I   17.7 I   15.7 I      0 I   19.4 I      0 I
                        -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                       3 I    232 I     21 I    160 I    143 I     58 I     64 I    299 I      2 I     25 I      1 I   1235
  ALL NON-CHICANO        I   18.8 I    1.7 I   13.0 I   11.6 I    4.7 I    5.2 I   24.2 I     .2 I    2.0 I     .1 I   27.7
                         I   27.4 I   18.4 I   23.3 I   25.3 I   33.3 I   30.6 I   29.7 I   16.7 I   24.3 I  100.0 I
                        -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  COLUMN      848      114      686      566      174      209     1006       12      103        1     4461
                   TOTAL     19.0      2.6     15.4     12.7      3.9      4.7     22.6       .3      2.3       .0    100.0



                          SETTING
                  COUNT  I
                  ROW PCT IPUBLIC O PLAY GRO OTHER        ROW
                  COL PCT IPEN SPAC UND                   TOTAL
                          I     11 I     12 I     14 I
ETHNICIT         --------I--------I--------I--------I
                       1 I    140 I    176 I      6 I   2257
  ALL CHICANO            I    6.2 I    7.8 I     .3 I   50.6
                         I   52.8 I   37.4 I  100.0 I
                        -I--------I--------I--------I
                       2 I     52 I    138 I      0 I    969
  MIXED ETHNIC           I    5.4 I   14.2 I      0 I   21.7
                         I   19.6 I   29.3 I      0 I
                        -I--------I--------I--------I
                       3 I     73 I    157 I      0 I   1235
  ALL NON-CHICANO        I    5.9 I   12.7 I      0 I   27.7
                         I   27.5 I   33.3 I      0 I
                        -I--------I--------I--------I
                  COLUMN      265      471        6     4461
                   TOTAL      5.9     10.6       .1    100.0

RAW CHI SQUARE =   108.70859 WITH    24 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .11038
CONTINGENCY COEFFICIENT =    .15424
LAMBDA (ASYMMETRIC) =    .00045 WITH ETHNICIT DEPENDENT.          =    .01708 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =    .01060
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .01253 WITH ETHNICIT DEPENDENT.          =    .00820 WITH SETTING  DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .00830
```

TABLE 9

```
* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * *
   ETHNICIT                                                                BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                 PROP
        COUNT  I
      ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU   ROW
      COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS       TOYS    SCLE TOY SCLE TOY  TOTAL
               I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
ETHNICIT       --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            1  I   120  I   192  I   103  I   131  I   167  I    67  I    85  I   120  I    32  I   291  I  1486
 ALL CHICANO   I   8.1  I  12.9  I   6.9  I   8.8  I  11.2  I   4.5  I   5.7  I   8.1  I   2.2  I  19.6  I  50.9
               I  51.5  I  54.5  I  55.7  I  37.9  I  50.3  I  65.7  I  53.1  I  56.9  I  34.8  I  52.2  I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            2  I    49  I    74  I    31  I   101  I    63  I    17  I    28  I    49  I    23  I   106  I   615
 MIXED ETHNIC  I   8.0  I  12.0  I   5.0  I  16.4  I  10.2  I   2.8  I   4.6  I   8.0  I   3.7  I  17.2  I  21.1
               I  21.0  I  21.0  I  16.8  I  29.2  I  19.0  I  16.7  I  17.5  I  23.2  I  25.0  I  19.0  I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            3  I    64  I    86  I    51  I   114  I   102  I    18  I    47  I    42  I    37  I   161  I   819
 ALL NON-CHICANO I   7.8  I  10.5  I   6.2  I  13.9  I  12.5  I   2.2  I   5.7  I   5.1  I   4.5  I  19.7  I  28.0
               I  27.5  I  24.4  I  27.6  I  32.9  I  30.7  I  17.6  I  29.4  I  19.9  I  40.2  I  28.9  I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
       COLUMN      233      352      185      346      332      102      160      211       92      558     2920
        TOTAL      8.0     12.1      6.3     11.8     11.4      3.5      5.5      7.2      3.2     19.1    100.0



                 PROP
        COUNT  I
      ROW PCT  ICLOTHING FOOD      MIXED      ROW
      COL PCT  I                              TOTAL
               I    11  I    12  I    13  I
ETHNICIT       --------I--------I--------I
            1  I    48  I   117  I    13  I  1486
 ALL CHICANO   I   3.2  I   7.9  I    .9  I  50.9
               I  58.5  I  47.2  I  68.4  I
              -I--------I--------I--------I
            2  I    16  I    57  I     1  I   615
 MIXED ETHNIC  I   2.6  I   9.3  I    .2  I  21.1
               I  19.5  I  23.0  I   5.3  I
              -I--------I--------I--------I
            3  I    18  I    74  I     5  I   819
 ALL NON-CHICANO I   2.2  I   9.0  I    .6  I  28.0
               I  22.0  I  29.8  I  26.3  I
              -I--------I--------I--------I
       COLUMN       82      248       19     2920
        TOTAL      2.8      8.5       .7    100.0

RAW CHI SQUARE =    68.00960 WITH    24 DEGREES OF FREEDOM.  SIGNIFICANCE =    .0000
CRAMER'S V =    .10791
CONTINGENCY COEFFICIENT =    .15087
LAMBDA (ASYMMETRIC) =    .00349 WITH ETHNICIT DEPENDENT.        =        0 WITH PROP      DEPENDENT.
LAMBDA (SYMMETRIC) =    .00132
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .01161 WITH ETHNICIT DEPENDENT.        =    .00505 WITH PROP      DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .00704
```

TABLE 10

```
* * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * *
   ETHNICIT                                                         BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  1 OF  1

                   BEHAVIOR
           COUNT  I
          ROW PCT IFORMAL I SOCIALIZ GAMES    WORK     SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING      ROW
          COL PCT INF GAT-E ING                         PLAY     TING    SCLE ACT OUGH SPA G                   TOTAL
                  I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
ETHNICIT  --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                1 I     66 I    437 I     74 I     82 I    115 I    189 I    279 I    535 I    407 I     54 I   2247
  ALL CHICANO     I    2.9 I   19.4 I    3.3 I    3.6 I    5.1 I    8.4 I   12.4 I   23.8 I   18.1 I    2.4 I   50.6
                  I   66.7 I   46.6 I   18.7 I   52.6 I   56.4 I   49.3 I   48.2 I   55.7 I   50.4 I   37.8 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                2 I     15 I    302 I     40 I     27 I     38 I     73 I    143 I    115 I    169 I     42 I    968
  MIXED ETHNIC    I    1.5 I   31.2 I    4.1 I    2.8 I    3.9 I    7.5 I   14.8 I   11.9 I   17.5 I    4.3 I   21.8
                  I   15.2 I   32.2 I   26.3 I   17.3 I   18.6 I   19.1 I   24.7 I   12.0 I   20.9 I   29.4 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                3 I     18 I    199 I     38 I     47 I     51 I    121 I    157 I    310 I    232 I     47 I   1228
  ALL NON-CHICANO I    1.5 I   16.2 I    3.1 I    3.8 I    4.2 I    9.9 I   12.8 I   25.2 I   18.9 I    3.8 I   27.6
                  I   18.2 I   21.2 I   25.0 I   30.1 I   25.0 I   31.6 I   27.1 I   32.3 I   28.7 I   32.9 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN        99      938      152      156      204      383      579      960      808      143     4443
           TOTAL       2.2     21.1      3.4      3.5      4.6      8.6     13.0     21.6     18.2      3.2    100.0


                   BEHAVIOR
           COUNT  I
          ROW PCT IEMOTIONA   ROW
          COL PCT IL EXPRES  TOTAL
                  I     11 I
ETHNICIT  --------I--------I
                1 I      9 I   2247
  ALL CHICANO     I     .4 I   50.6
                  I   42.9 I
                 -I--------I
                2 I      4 I    968
  MIXED ETHNIC    I     .4 I   21.8
                  I   19.0 I
                 -I--------I
                3 I      8 I   1228
  ALL NON-CHICANO I     .7 I   27.6
                  I   38.1 I
                 -I--------I
          COLUMN        21     4443
           TOTAL        .5    100.0

RAW CHI SQUARE =    153.61017 WITH    20 DEGREES OF FREEDOM.  SIGNIFICANCE =    .0000
CRAMER'S V =    .13148
CONTINGENCY COEFFICIENT =    .18281
LAMBDA (ASYMMETRIC) =          0 WITH ETHNICIT DEPENDENT.            =    .05369 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =    .03293
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .01709 WITH ETHNICIT DEPENDENT.            =    .00864 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .01148
```

TABLE 11

```
* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   SUPER     SUPERVISION OF CHILD OR GROUP                BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  2

                 SETTING
          COUNT  I
        ROW PCT  IFRONT YA SIDE YAR BACK YAR FRONT PO BACK POR PRIVATE  PUBLIC S STREET   APRON    ALLEY       ROW
        COL PCT  IRD      D        D        RCH      CH       SIDEWALK IDEWALK                              TOTAL
                 I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
SUPER   --------+--------+--------+--------+--------+--------+--------+--------+--------+--------+--------I
                0 I   802 I   115 I   608 I   508 I   155 I   192 I  1091 I    22 I    88 I     1 I   4385
  NO SUPERVISION  I  18.3 I   2.6 I  13.9 I  11.6 I   3.5 I   4.4 I  24.9 I    .5 I   2.0 I    .0 I   83.6
                  I  85.4 I  85.2 I  79.4 I  79.9 I  82.9 I  81.7 I  85.2 I  75.9 I  75.9 I  33.3 I
                 -I-------I-------I-------I-------I-------I-------I-------I-------I-------I-------I
                1 I   108 I    14 I   121 I    90 I    21 I    31 I   127 I     7 I    22 I     2 I    620
  DIRECT AD SUPV  I  17.4 I   2.3 I  19.5 I  14.5 I   3.4 I   5.0 I  20.5 I   1.1 I   3.5 I    .3 I   11.8
                  I  11.5 I  10.4 I  15.8 I  14.2 I  11.2 I  13.2 I   9.9 I  24.1 I  19.0 I  66.7 I
                 -I-------I-------I-------I-------I-------I-------I-------I-------I-------I-------I
                2 I    17 I     3 I    27 I    21 I     6 I     6 I    34 I     0 I     6 I     0 I    134
  INDIRECT AD SUPV I 12.7 I   2.2 I  20.1 I  15.7 I   4.5 I   4.5 I  25.4 I     0 I   4.5 I     0 I    2.6
                  I   1.8 I   2.2 I   3.5 I   3.3 I   3.2 I   2.6 I   2.7 I     0 I   5.2 I     0 I
                 -I-------I-------I-------I-------I-------I-------I-------I-------I-------I-------I
                3 I    12 I     3 I    10 I    17 I     5 I     6 I    29 I     0 I     0 I     0 I    107
  CHILD SUPERVISIO I 11.2 I   2.8 I   9.3 I  15.9 I   4.7 I   5.6 I  27.1 I     0 I     0 I     0 I    2.0
                  I   1.3 I   2.2 I   1.3 I   2.7 I   2.7 I   2.6 I   2.3 I     0 I     0 I     0 I
                 -I-------I-------I-------I-------I-------I-------I-------I-------I-------I-------I
           COLUMN     939     135     766     636     187     235    1281      29     116       3     5246
           TOTAL     17.9     2.6    14.6    12.1     3.6     4.5    24.4      .6     2.2      .1    100.0
(CONTINUED)
```

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* * * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * * *
   SUPER      SUPERVISION OF CHILD OR GROUP                      BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

                     SETTING
             COUNT  I
           ROW PCT  IPUBLIC O PLAY GRO ACROSS S OTHER        ROW
           COL PCT  IPEN SPAC UND      ETTINGS               TOTAL
                    I    11  I    12  I    13  I    14  I
SUPER      --------I--------I--------I--------I--------I
                 0  I   327  I   431  I    32  I    13  I   4385
  NO SUPERVISION    I   7.5  I   9.8  I    .7  I    .3  I   83.6
                    I  82.0  I  91.9  I 100.0  I  68.4  I
                   -I--------I--------I--------I--------I
                 1  I    52  I    20  I     0  I     5  I    620
  DIRECT AD SUPV    I   8.4  I   3.2  I     0  I    .8  I   11.8
                    I  13.0  I   4.3  I     0  I  26.3  I
                   -I--------I--------I--------I--------I
                 2  I    13  I     0  I     0  I     1  I    134
  INDIRECT AD SUPV  I   9.7  I     0  I     0  I    .7  I    2.6
                    I   3.3  I     0  I     0  I   5.3  I
                   -I--------I--------I--------I--------I
                 3  I     7  I    18  I     0  I     0  I    107
  CHILD SUPERVISIO  I   6.5  I  16.8  I     0  I     0  I    2.0
                    I   1.8  I   3.8  I     0  I     0  I
                   -I--------I--------I--------I--------I
            COLUMN      399      469       32       19      5246
             TOTAL      7.6      8.9       .6       .4     100.0

RAW CHI SQUARE =    118.95192 WITH    39 DEGREES OF FREEDOM.  SIGNIFICANCE =    .0000
CRAMER'S V =    .08694
CONTINGENCY COEFFICIENT =    .14890
LAMBDA (ASYMMETRIC) =    .00116 WITH SUPER    DEPENDENT.          =         0 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =    .00021
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .02293 WITH SUPER    DEPENDENT.          =    .00622 WITH SETTING  DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .00978

NUMBER OF MISSING OBSERVATIONS =    124
```

TABLE 12

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* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   SUPER     SUPERVISION OF CHILD OR GROUP                     BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *   PAGE  1 OF  2

                   BEHAVIOR
            COUNT I
          ROW PCT IFORMAL I SOCIALIZ GAMES    WORK     SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING      ROW
          COL PCT INF GAT-E ING                          PLAY   TING     SCLE ACT OUGH SPA G                 TOTAL
                  I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
SUPER    ---------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               0  I     93 I    775 I    208 I    130 I    210 I    386 I    578 I   1086 I    787 I     94 I  4370
  NO SUPERVISION  I    2.1 I   17.7 I    4.8 I    3.0 I    4.8 I    8.8 I   13.2 I   24.9 I   18.0 I    2.2 I  83.6
                  I   87.7 I   75.4 I   87.0 I   76.0 I   91.7 I   88.5 I   87.6 I   84.7 I   86.4 I   68.6 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               1  I     11 I    204 I     27 I     27 I      8 I     32 I     40 I    146 I     82 I     35 I   617
  DIRECT AD SUPV  I    1.8 I   33.1 I    4.4 I    4.4 I    1.3 I    5.2 I    6.5 I   23.7 I   13.3 I    5.7 I  11.8
                  I   10.4 I   19.8 I   11.3 I   15.8 I    3.5 I    7.3 I    6.1 I   11.4 I    9.0 I   25.5 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2  I      1 I     17 I      4 I      4 I      8 I     14 I     21 I     34 I     26 I      4 I   134
 INDIRECT AD SUPV I     .7 I   12.7 I    3.0 I    3.0 I    6.0 I   10.4 I   15.7 I   25.4 I   19.4 I    3.0 I   2.6
                  I     .9 I    1.7 I    1.7 I    2.3 I    3.5 I    3.2 I    3.2 I    2.7 I    2.9 I    2.9 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               3  I      1 I     32 I      0 I     10 I      3 I      4 I     21 I     16 I     16 I      4 I   107
 CHILD SUPERVISIO I     .9 I   29.9 I      0 I    9.3 I    2.8 I    3.7 I   19.6 I   15.0 I   15.0 I    3.7 I   2.0
                  I     .9 I    3.1 I      0 I    5.8 I    1.3 I     .9 I    3.2 I    1.2 I    1.8 I    2.9 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN      106     1028      239      171      229      436      660     1282      911      137    5228
            TOTAL      2.0     19.7      4.6      3.3      4.4      8.3     12.6     24.5     17.4      2.6   100.0
(CONTINUED)
```

```
* * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * *
   SUPER     SUPERVISION OF CHILD OR GROUP                           BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

                        BEHAVIOR
            COUNT  I
          ROW PCT  IEMOTIONA   ROW
          COL PCT  IL EXPRES  TOTAL
                   I    11  I
SUPER      --------I--------I
                 0 I     23 I   4370
  NO SUPERVISION   I     .5 I   83.6
                   I   79.3 I
                  -I--------I
                 1 I      5 I    617
  DIRECT AD SUPV   I     .8 I   11.8
                   I   17.2 I
                  -I--------I
                 2 I      1 I    134
  INDIRECT AD SUPV I     .7 I    2.6
                   I    3.4 I
                  -I--------I
                 3 I      0 I    107
  CHILD SUPERVISIO I      0 I    2.0
                   I      0 I
                  -I--------I
           COLUMN        29     5228
            TOTAL        .6    100.0

RAW CHI SQUARE =   190.48115 WITH    30 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =   .11020
CONTINGENCY COEFFICIENT =   .18749
LAMBDA (ASYMMETRIC) =         0 WITH SUPER    DEPENDENT.          =   .01875 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =   .01540
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .03134 WITH SUPER    DEPENDENT.          =   .00888 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .01384

NUMBER OF MISSING OBSERVATIONS =   142
```

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* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   CONFAGE   SOCIAL CONFIGURATION, AGE                          BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  2

                   SETTING
            COUNT  I
          ROW PCT  IFRONT YA  SIDE YAR  BACK YAR  FRONT PO  BACK POR  PRIVATE   PUBLIC S  STREET    APRON     ALLEY        ROW
          COL PCT  IRD        D         D         RCH       CH        SIDEWALK  IDEWALK                                 TOTAL
          TOT PCT  I       1 I       2 I       3 I       4 I       5 I       6 I       7 I       8 I       9 I      10 I
CONFAGE   ---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                1  I     197 I      20 I     134 I     161 I      52 I      67 I     355 I       5 I      29 I       1 I   1179
 CHILD ALONE       I    16.7 I     1.7 I    11.4 I    13.7 I     4.4 I     5.7 I    30.1 I      .4 I     2.5 I      .1 I   22.8
                   I    21.2 I    15.2 I    17.6 I    25.8 I    28.0 I    28.8 I    28.3 I    17.2 I    25.2 I    33.3 I
                   I     3.8 I      .4 I     2.6 I     3.1 I     1.0 I     1.3 I     6.9 I      .1 I      .6 I      .0 I
                  -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                2  I     313 I      48 I     230 I     181 I      54 I      55 I     394 I       6 I      28 I       0 I   1619
 SAME AGE CHILDRE  I    19.3 I     3.0 I    14.2 I    11.2 I     3.3 I     3.4 I    24.3 I      .4 I     1.7 I       0 I   31.3
                   I    33.7 I    36.4 I    30.3 I    29.1 I    29.0 I    23.6 I    31.4 I    20.7 I    24.3 I       0 I
                   I     6.0 I      .9 I     4.4 I     3.5 I     1.0 I     1.1 I     7.6 I      .1 I      .5 I       0 I
                  -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                3  I     295 I      47 I     250 I     172 I      53 I      74 I     345 I      11 I      30 I       0 I   1631
 MIXED AGE CHILDR  I    18.1 I     2.9 I    15.3 I    10.5 I     3.2 I     4.5 I    21.2 I      .7 I     1.8 I       0 I   31.5
                   I    31.7 I    35.6 I    32.9 I    27.6 I    28.5 I    31.8 I    27.5 I    37.9 I    26.1 I       0 I
                   I     5.7 I      .9 I     4.8 I     3.3 I     1.0 I     1.4 I     6.7 I      .2 I      .6 I       0 I
                  -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                4  I      15 I       2 I      18 I      28 I       7 I       6 I      40 I       3 I       5 I       0 I    143
 ONE CHILD,ONE AD  I    10.5 I     1.4 I    12.6 I    19.6 I     4.9 I     4.2 I    28.0 I     2.1 I     3.5 I       0 I    2.8
                   I     1.6 I     1.5 I     2.4 I     4.5 I     3.8 I     2.8 I     3.2 I    10.3 I     4.3 I       0 I
                   I      .3 I      .0 I      .3 I      .5 I      .1 I      .1 I      .8 I      .1 I      .1 I       0 I
                  -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                5  I     110 I      15 I     128 I      81 I      20 I      31 I     120 I       4 I      23 I       2 I    607
 CHILDREN AND ADU  I    18.1 I     2.5 I    21.1 I    13.3 I     3.3 I     5.1 I    19.8 I      .7 I     3.8 I      .3 I   11.7
                   I    11.8 I    11.4 I    16.8 I    13.0 I    10.8 I    13.3 I     9.6 I    13.8 I    20.0 I    66.7 I
                   I     2.1 I      .3 I     2.5 I     1.6 I      .4 I      .6 I     2.3 I      .1 I      .4 I      .0 I
                  -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
           COLUMN        930       132       760       623       186       233      1254        29       115         3     5179
            TOTAL       18.0       2.5      14.7      12.0       3.6       4.5      24.2        .6       2.2        .1    100.0
(CONTINUED)
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TABLE 13

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* * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * *
   CONFAGE   SOCIAL CONFIGURATION, AGE                                   BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

                      SETTING
                COUNT  I
              ROW PCT  IPUBLIC O PLAY GRO ACROSS S OTHER         ROW
              COL PCT  IPEN SPAC UND      ETTINGS                TOTAL
              TOT PCT  I    11   I    12   I    13   I    14   I
CONFAGE       --------I--------I--------I--------I--------I
                    1  I     65  I     88  I      2  I      3  I   1179
  CHILD ALONE          I    5.5  I    7.5  I     .2  I     .3  I   22.8
                       I   16.4  I   18.8  I    6.3  I   15.8  I
                       I    1.3  I    1.7  I     .0  I     .1  I
                      -I--------I--------I--------I--------I
                    2  I    131  I    157  I     12  I     10  I   1619
  SAME AGE CHILDRE     I    8.1  I    9.7  I     .7  I     .6  I   31.3
                       I   33.1  I   33.6  I   37.5  I   52.6  I
                       I    2.5  I    3.0  I     .2  I     .2  I
                      -I--------I--------I--------I--------I
                    3  I    134  I    202  I     18  I      0  I   1631
  MIXED AGE CHILDR     I    8.2  I   12.4  I    1.1  I      0  I   31.5
                       I   33.8  I   43.3  I   56.3  I      0  I
                       I    2.6  I    3.9  I     .3  I      0  I
                      -I--------I--------I--------I--------I
                    4  I     13  I      5  I      0  I      1  I    143
  ONE CHILD,ONE AD     I    9.1  I    3.5  I      0  I     .7  I    2.8
                       I    3.3  I    1.1  I      0  I    5.3  I
                       I     .3  I     .1  I      0  I     .0  I
                      -I--------I--------I--------I--------I
                    5  I     53  I     15  I      0  I      5  I    607
  CHILDREN AND ADU     I    8.7  I    2.5  I      0  I     .8  I   11.7
                       I   13.4  I    3.2  I      0  I   26.3  I
                       I    1.0  I     .3  I      0  I     .1  I
                      -I--------I--------I--------I--------I
               COLUMN        396       467        32        19     5179
                TOTAL        7.6       9.0        .6        .4    100.0

RAW CHI SQUARE =    220.20873 WITH    52 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .10310
CONTINGENCY COEFFICIENT =    .20195
LAMBDA (ASYMMETRIC) =    .02537 WITH CONFAGE  DEPENDENT.          =   .00204 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =    .01311
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .01599 WITH CONFAGE  DEPENDENT.          =   .01065 WITH SETTING  DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .01278

NUMBER OF MISSING OBSERVATIONS =   191
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* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
   CONFAGE   SOCIAL CONFIGURATION, AGE                                  BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  2

                  PROP
          COUNT  I
        ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU    ROW
        COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT    AL MATER NAL MATE OLS        TOYS    SCLE TOY SCLE TOY   TOTAL
        TOT PCT  I       1 I       2 I       3 I       4 I       5 I       6 I       7 I       8 I       9 I      10 I
CONFAGE  --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               1 I     77 I     82 I     33 I     65 I     97 I     23 I     60 I     59 I     20 I    195 I
  CHILD ALONE    I    9.5 I   10.2 I    4.1 I    8.1 I   12.0 I    2.9 I    7.4 I    7.3 I    2.5 I   24.2 I    807
                 I   29.3 I   22.8 I   14.2 I   15.7 I   24.9 I   18.7 I   35.9 I   25.2 I   20.0 I   32.3 I   24.7
                 I    2.4 I    2.5 I    1.0 I    2.0 I    3.0 I     .7 I    1.8 I    1.8 I     .6 I    6.0 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2 I     63 I    128 I     57 I    147 I    136 I     53 I     44 I     82 I     29 I    178 I
SAME AGE CHILDRE I    6.2 I   12.6 I    5.6 I   14.4 I   13.3 I    5.2 I    4.3 I    8.0 I    2.8 I   17.5 I   1019
                 I   24.0 I   35.7 I   24.6 I   35.4 I   34.9 I   43.1 I   26.3 I   35.0 I   29.0 I   29.5 I   31.2
                 I    1.9 I    3.9 I    1.7 I    4.5 I    4.2 I    1.6 I    1.3 I    2.5 I     .9 I    5.5 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               3 I     80 I    117 I     97 I    182 I    109 I     31 I     39 I     61 I     41 I    172 I
MIXED AGE CHILDR I    7.8 I   11.3 I    9.4 I   17.6 I   10.6 I    3.0 I    3.8 I    5.9 I    4.0 I   16.7 I   1032
                 I   30.4 I   32.6 I   41.8 I   43.9 I   27.9 I   25.2 I   23.4 I   26.1 I   41.0 I   28.5 I   31.6
                 I    2.5 I    3.6 I    3.0 I    5.6 I    3.3 I     .9 I    1.2 I    1.9 I    1.3 I    5.3 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               4 I      9 I      5 I     14 I      5 I     10 I      2 I      6 I      3 I      3 I     11 I
ONE CHILD,ONE AD I   10.7 I    6.0 I   16.7 I    6.0 I   11.9 I    2.4 I    7.1 I    3.6 I    3.6 I   13.1 I     84
                 I    3.4 I    1.4 I    6.0 I    1.2 I    2.6 I    1.6 I    3.6 I    1.3 I    3.0 I    1.8 I    2.6
                 I     .3 I     .2 I     .4 I     .2 I     .3 I     .1 I     .2 I     .1 I     .1 I     .3 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               5 I     34 I     27 I     31 I     16 I     38 I     14 I     18 I     29 I      7 I     47 I
CHILDREN AND ADU I   10.5 I    8.4 I    9.6 I    5.0 I   11.8 I    4.3 I    5.6 I    9.0 I    2.2 I   14.6 I    323
                 I   12.9 I    7.5 I   13.4 I    3.9 I    9.7 I   11.4 I   10.8 I   12.4 I    7.0 I    7.8 I    9.9
                 I    1.0 I     .8 I     .9 I     .5 I    1.2 I     .4 I     .6 I     .9 I     .2 I    1.4 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN       263      359      232      415      390      123      167      234      100      603     3265
           TOTAL       8.1     11.0      7.1     12.7     11.9      3.8      5.1      7.2      3.1     18.5    100.0
(CONTINUED)
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TABLE 14

```
 * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
    CONFAGE   SOCIAL CONFIGURATION, AGE                           BY  PROP
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  2 OF  2

                           PROP
                  COUNT  I
                 ROW PCT ICLOTHING FOOD     MIXED        ROW
                 COL PCT I                              TOTAL
                 TOT PCT I      11 I      12 I      13 I
 CONFAGE        --------I--------I--------I--------I
                       1 I      32 I      58 I       6 I     807
   CHILD ALONE           I     4.0 I     7.2 I      .7 I    24.7
                         I    34.4 I    21.7 I    31.6 I
                         I     1.0 I     1.8 I      .2 I
                        -I--------I--------I--------I
                       2 I      24 I      72 I       6 I    1019
   SAME AGE CHILDRE I     2.4 I     7.1 I      .6 I    31.2
                         I    25.8 I    27.0 I    31.6 I
                         I      .7 I     2.2 I      .2 I
                        -I--------I--------I--------I
                       3 I      18 I      81 I       4 I    1032
   MIXED AGE CHILDR I     1.7 I     7.8 I      .4 I    31.6
                         I    19.4 I    30.3 I    21.1 I
                         I      .6 I     2.5 I      .1 I
                        -I--------I--------I--------I
                       4 I       7 I       8 I       1 I      84
   ONE CHILD,ONE AD I     8.3 I     9.5 I     1.2 I     2.6
                         I     7.5 I     3.0 I     5.3 I
                         I      .2 I      .2 I      .0 I
                        -I--------I--------I--------I
                       5 I      12 I      48 I       2 I     323
   CHILDREN AND ADU I     3.7 I    14.9 I      .6 I     9.9
                         I    12.9 I    18.0 I    10.5 I
                         I      .4 I     1.5 I      .1 I
                        -I--------I--------I--------I
                  COLUMN        93       267        19     3265
                   TOTAL       2.8       8.2        .6    100.0

 RAW CHI SQUARE =   205.29258 WITH    48 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
 CRAMER'S V =    .12538
 CONTINGENCY COEFFICIENT =    .24322
 LAMBDA (ASYMMETRIC) =    .06314 WITH CONFAGE  DEPENDENT.          =   .00526 WITH PROP     DEPENDENT.
 LAMBDA (SYMMETRIC) =    .03166
 UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .02210 WITH CONFAGE  DEPENDENT.          =   .01302 WITH PROP     DEPENDENT.
 UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .01639

 NUMBER OF MISSING OBSERVATIONS =  2105
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TABLE 15

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* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * *
   CONFSEX   SOCIAL CONFIGURATION,SEX                                BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                BEHAVIOR
        COUNT  I
      ROW PCT  IFORMAL I SOCIALIZ GAMES     WORK     SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING      ROW
      COL PCT  INF GAT-E ING                          PLAY     TING    SCLE ACT OUGH SPA G                    TOTAL
               I      1 I       2 I       3 I       4 I       5 I       6 I       7 I       8 I       9 I      10 I
CONFSEX        --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             1 I     32 I     230 I      90 I      76 I     100 I     170 I     229 I     591 I     331 I      34 I   1892
  MALES ONLY   I    1.7 I    12.2 I     4.8 I     4.0 I     5.3 I     9.0 I    12.1 I    31.2 I    17.5 I     1.8 I   36.1
               I   30.8 I    22.3 I    37.7 I    45.5 I    44.4 I    39.4 I    34.9 I    45.2 I    36.3 I    23.9 I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             2 I     24 I     165 I      23 I      41 I      32 I      82 I     143 I     284 I     197 I      29 I   1026
  FEMALES ONLY I    2.3 I    16.1 I     2.2 I     4.0 I     3.1 I     8.0 I    13.9 I    27.7 I    19.2 I     2.8 I   19.6
               I   23.1 I    16.0 I     9.6 I    24.6 I    14.2 I    19.0 I    21.8 I    21.7 I    21.6 I    20.4 I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             3 I     48 I     638 I     126 I      50 I      93 I     180 I     285 I     432 I     383 I      79 I   2329
  BOTH MALES AND F I  2.1 I    27.4 I     5.4 I     2.1 I     4.0 I     7.7 I    12.2 I    18.5 I    16.4 I     3.4 I   44.4
               I   46.2 I    61.8 I    52.7 I    29.9 I    41.3 I    41.7 I    43.4 I    33.1 I    42.0 I    55.6 I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
       COLUMN       104      1033       239       167       225       432       657      1307       911       142     5247
        TOTAL       2.0      19.7       4.6       3.2       4.3       8.2      12.5      24.9      17.4       2.7    100.0


                BEHAVIOR
        COUNT  I
      ROW PCT  IEMOTIONA   ROW
      COL PCT  IL EXPRES   TOTAL
               I     11 I
CONFSEX        --------I--------I
             1 I      9 I   1892
  MALES ONLY   I     .5 I   36.1
               I   30.0 I
              -I--------I
             2 I      6 I   1026
  FEMALES ONLY I     .6 I   19.6
               I   20.0 I
              -I--------I
             3 I     15 I   2329
  BOTH MALES AND F I   .6 I   44.4
               I   50.0 I
              -I--------I
       COLUMN        30     5247
        TOTAL        .6    100.0

RAW CHI SQUARE =   260.38559 WITH    20 DEGREES OF FREEDOM.  SIGNIFICANCE =        0
CRAMER'S V =    .15752
CONTINGENCY COEFFICIENT =    .21744
LAMBDA (ASYMMETRIC) =    .06580 WITH CONFSEX  DEPENDENT.            =    .05228 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =    .05803
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .02426 WITH CONFSEX  DEPENDENT.           =    .01254 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .01654
```

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* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * *
   SETTING                                                        BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  4

                    PROP
           COUNT  I
         ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU    ROW
         COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS        TOYS   SCLE TOY SCLE TOY   TOTAL
                  I       1 I       2 I       3 I       4 I       5 I       6 I       7 I       8 I       9 I      10 I
SETTING   --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                1 I     22 I     93 I     79 I      2 I     72 I     22 I     47 I     65 I     17 I     90 I    577
 FRONT YARD       I    3.8 I   16.1 I   13.7 I     .3 I   12.5 I    3.8 I    8.1 I   11.3 I    2.9 I   15.6 I   17.2
                  I    8.1 I   25.5 I   32.6 I     .5 I   18.2 I   17.2 I   28.0 I   27.0 I   16.7 I   14.3 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                2 I     14 I     24 I     11 I      0 I     13 I      2 I      3 I      5 I      0 I     14 I     96
 SIDE YARD        I   14.6 I   25.0 I   11.5 I      0 I   13.5 I    2.1 I    3.1 I    5.2 I      0 I   14.6 I    2.9
                  I    5.1 I    6.6 I    4.5 I      0 I    3.3 I    1.6 I    1.8 I    2.1 I      0 I    2.2 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                3 I     28 I     62 I     45 I      1 I     67 I     18 I     33 I     37 I     27 I     87 I    475
 BACK YARD        I    5.9 I   13.1 I    9.5 I     .2 I   14.1 I    3.8 I    6.9 I    7.8 I    5.7 I   18.3 I   14.1
                  I   10.3 I   17.0 I   18.6 I     .2 I   16.9 I   14.1 I   19.6 I   15.4 I   26.5 I   13.8 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                4 I     52 I     38 I     16 I      1 I     50 I     28 I     22 I     34 I     17 I     33 I    364
 FRONT PORCH      I   14.3 I   10.4 I    4.4 I     .3 I   13.7 I    7.7 I    6.0 I    9.3 I    4.7 I    9.1 I   10.8
                  I   19.0 I   10.4 I    6.6 I     .2 I   12.6 I   21.9 I   13.1 I   14.1 I   16.7 I    5.2 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                5 I     16 I     19 I      7 I      0 I     17 I      2 I      8 I      4 I      5 I      8 I    107
 BACK PORCH       I   15.0 I   17.8 I    6.5 I      0 I   15.9 I    1.9 I    7.5 I    3.7 I    4.7 I    7.5 I    3.2
                  I    5.9 I    5.2 I    2.9 I      0 I    4.3 I    1.8 I    4.8 I    1.7 I    4.9 I    1.3 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                6 I      1 I     15 I      7 I      0 I     17 I     12 I     16 I     11 I      6 I     41 I    147
 PRIVATE SIDEWALK I     .7 I   10.2 I    4.8 I      0 I   11.6 I    8.2 I   10.9 I    7.5 I    4.1 I   27.9 I    4.4
                  I     .4 I    4.1 I    2.9 I      0 I    4.3 I    9.4 I    9.5 I    4.6 I    5.9 I    6.5 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                7 I     37 I     68 I     47 I      0 I    106 I     33 I     27 I     57 I     11 I    293 I    768
 PUBLIC SIDEWALK  I    4.8 I    8.9 I    6.1 I      0 I   13.8 I    4.3 I    3.5 I    7.4 I    1.4 I   38.2 I   22.9
                  I   13.6 I   18.7 I   19.4 I      0 I   26.8 I   25.8 I   16.1 I   23.7 I   10.8 I   46.5 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                8 I      7 I      0 I      1 I      0 I      5 I      0 I      0 I      1 I      0 I      0 I     18
 STREET           I   38.9 I      0 I    5.6 I      0 I   27.8 I      0 I      0 I    5.6 I      0 I      0 I     .5
                  I    2.6 I      0 I     .4 I      0 I    1.3 I      0 I      0 I     .4 I      0 I      0 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                9 I     17 I      7 I      2 I      0 I     12 I      3 I      3 I      5 I      5 I     11 I     71
 APRON            I   23.9 I    9.9 I    2.8 I      0 I   16.9 I    4.2 I    4.2 I    7.0 I    7.0 I   15.5 I    2.1
                  I    6.2 I    1.9 I     .8 I      0 I    3.0 I    2.3 I    1.8 I    2.1 I    4.9 I    1.7 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               10 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      1 I      1 I      2
 ALLEY            I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I   50.0 I   50.0 I     .1
                  I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I    1.0 I     .2 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN      273      364      242      420      396      128      168      241      102      630      3357
            TOTAL      8.1     10.8      7.2     12.5     11.8      3.8      5.0      7.2      3.0     18.8     100.0
(CONTINUED)
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TABLE 16

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* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
   SETTING                                                                  BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  2 OF  4

                    PROP
            COUNT  I
          ROW PCT  ICLOTHING FOOD      MIXED       ROW
          COL PCT  I                               TOTAL
                   I    11  I     12  I     13  I
SETTING   ---------I--------I---------I---------I
                1  I    18  I     48  I      2  I    577
  FRONT YARD       I   3.1  I    8.3  I     .3  I   17.2
                   I  18.6  I   17.5  I    9.1  I
                  -I--------I---------I---------I
                2  I     3  I      7  I      0  I     96
  SIDE YARD        I   3.1  I    7.3  I      0  I    2.9
                   I   3.1  I    2.6  I      0  I
                  -I--------I---------I---------I
                3  I    21  I     47  I      2  I    475
  BACK YARD        I   4.4  I    9.9  I     .4  I   14.1
                   I  21.6  I   17.2  I    9.1  I
                  -I--------I---------I---------I
                4  I    13  I     58  I      2  I    364
  FRONT PORCH      I   3.6  I   15.9  I     .5  I   10.8
                   I  13.4  I   21.2  I    9.1  I
                  -I--------I---------I---------I
                5  I     6  I     13  I      2  I    107
  BACK PORCH       I   5.6  I   12.1  I    1.9  I    3.2
                   I   6.2  I    4.7  I    9.1  I
                  -I--------I---------I---------I
                6  I     4  I     13  I      4  I    147
  PRIVATE SIDEWALK I   2.7  I    8.8  I    2.7  I    4.4
                   I   4.1  I    4.7  I   18.2  I
                  -I--------I---------I---------I
                7  I    23  I     60  I      6  I    768
  PUBLIC SIDEWALK  I   3.0  I    7.8  I     .8  I   22.9
                   I  23.7  I   21.9  I   27.3  I
                  -I--------I---------I---------I
                8  I     1  I      3  I      0  I     18
  STREET           I   5.6  I   16.7  I      0  I     .5
                   I   1.0  I    1.1  I      0  I
                  -I--------I---------I---------I
                9  I     0  I      5  I      1  I     71
  APRON            I     0  I    7.0  I    1.4  I    2.1
                   I     0  I    1.8  I    4.5  I
                  -I--------I---------I---------I
               10  I     0  I      0  I      0  I      2
  ALLEY            I     0  I      0  I      0  I     .1
                   I     0  I      0  I      0  I
                  -I--------I---------I---------I
           COLUMN       97       274        22      3357
            TOTAL      2.9       8.2        .7     100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
   SETTING                                                                BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  3 OF  4

                PROP
          COUNT I
        ROW PCT IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU   ROW
        COL PCT IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS        TOYS    SCLE TOY SCLE TOY  TOTAL
                I       1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
SETTING  --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             11  I    65  I    15  I    15  I    51  I    27  I     6  I     9  I    10  I    12  I    39  I   271
  PUBLIC OPEN SPAC I 24.0 I   5.5  I   5.5  I  18.8  I  10.0  I   2.2  I   3.3  I   3.7  I   4.4  I  14.4  I   8.1
                 I  23.8  I   4.1  I   6.2  I  12.1  I   6.8  I   4.7  I   5.4  I   4.1  I  11.8  I   6.2  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             12  I    13  I    23  I    12  I   341  I     4  I     0  I     0  I    12  I     1  I    13  I   427
  PLAY GROUND    I   3.0  I   5.4  I   2.8  I  79.9  I    .9  I     0  I     0  I   2.9  I    .2  I   3.0  I  12.7
                 I   4.8  I   6.3  I   5.0  I  81.2  I   1.0  I     0  I     0  I   5.0  I   1.0  I   2.1  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             13  I     0  I     0  I     0  I    24  I     3  I     0  I     0  I     0  I     0  I     0  I    27
  ACROSS SETTINGS I    0  I     0  I     0  I  88.9  I  11.1  I     0  I     0  I     0  I     0  I     0  I    .8
                 I     0  I     0  I     0  I   5.7  I    .8  I     0  I     0  I     0  I     0  I     0  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             14  I     1  I     0  I     0  I     0  I     3  I     2  I     0  I     0  I     0  I     0  I     7
  OTHER          I  14.3  I     0  I     0  I     0  I  42.9  I  28.6  I     0  I     0  I     0  I     0  I    .2
                 I    .4  I     0  I     0  I     0  I    .8  I   1.6  I     0  I     0  I     0  I     0  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
         COLUMN      273      364      242      420      396      128      168      241      102      630     3357
          TOTAL      8.1     10.8      7.2     12.5     11.8      3.8      5.0      7.2      3.0     18.8    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
   SETTING                                                      BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  4 OF  4

                  PROP
             COUNT  I
           ROW PCT  ICLOTHING FOOD      MIXED       ROW
           COL PCT  I                               TOTAL
                    I     11  I     12  I     13  I
SETTING    ---------I---------I---------I---------I
                11  I      7  I     13  I      2  I    271
  PUBLIC OPEN SPAC  I    2.6  I    4.8  I     .7  I    8.1
                    I    7.2  I    4.7  I    9.1  I
                   -I---------I---------I---------I
                12  I      0  I      7  I      1  I    427
  PLAY GROUND       I      0  I    1.6  I     .2  I   12.7
                    I      0  I    2.6  I    4.5  I
                   -I---------I---------I---------I
                13  I      0  I      0  I      0  I     27
  ACROSS SETTINGS   I      0  I      0  I      0  I     .8
                    I      0  I      0  I      0  I
                   -I---------I---------I---------I
                14  I      1  I      0  I      0  I      7
  OTHER             I   14.3  I      0  I      0  I     .2
                    I    1.0  I      0  I      0  I
                   -I---------I---------I---------I
            COLUMN        97       274        22     3357
             TOTAL       2.9       8.2        .7    100.0

RAW CHI SQUARE =  2975.22745 WITH   156 DEGREES OF FREEDOM.  SIGNIFICANCE =       0
CRAMER'S V =    .27177
CONTINGENCY COEFFICIENT =    .68546
LAMBDA (ASYMMETRIC) =    .18154 WITH SETTING  DEPENDENT.           =   .16245 WITH PROP     DEPENDENT.
LAMBDA (SYMMETRIC) =    .17175
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .16688 WITH SETTING  DEPENDENT.           =   .15047 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .15825

NUMBER OF MISSING OBSERVATIONS =  2013
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TABLE 17

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* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   SETTING                                                        BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  4

                    BEHAVIOR
            COUNT  I
          ROW PCT  IFORMAL I SOCIALIZ GAMES     WORK      SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING     ROW
          COL PCT  INF GAT-E ING                           PLAY     TING    SCLE ACT OUGH SPA G                TOTAL
                   I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
SETTING    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                1  I     22 I    184 I     71 I     37 I     67 I    117 I     72 I    147 I    197 I     24 I    942
  FRONT YARD       I    2.3 I   19.5 I    7.5 I    3.9 I    7.1 I   12.4 I    7.6 I   15.6 I   20.9 I    2.5 I   17.6
                   I   20.6 I   17.5 I   29.0 I   21.0 I   29.3 I   26.8 I   10.7 I   11.0 I   21.3 I   16.8 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                2  I      1 I     39 I     10 I      8 I      5 I     17 I     19 I     15 I     20 I      6 I    140
  SIDE YARD        I     .7 I   27.9 I    7.1 I    5.7 I    3.6 I   12.1 I   13.6 I   10.7 I   14.3 I    4.3 I    2.6
                   I     .9 I    3.7 I    4.1 I    4.5 I    2.2 I    3.9 I    2.8 I    1.1 I    2.2 I    4.2 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                3  I     25 I    174 I     60 I     36 I     41 I     71 I     76 I    147 I    124 I     29 I    792
  BACK YARD        I    3.2 I   22.0 I    7.6 I    4.5 I    5.2 I    9.0 I    9.6 I   18.6 I   15.7 I    3.7 I   14.8
                   I   23.4 I   16.6 I   24.5 I   20.5 I   17.9 I   16.3 I   11.3 I   11.0 I   13.4 I   20.3 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                4  I     22 I    173 I     10 I     19 I     41 I     57 I     20 I     59 I    195 I     40 I    644
  FRONT PORCH      I    3.4 I   26.9 I    1.6 I    3.0 I    6.4 I    8.9 I    3.1 I    9.2 I   30.3 I    6.2 I   12.1
                   I   20.6 I   16.5 I    4.1 I   10.8 I   17.9 I   13.1 I    3.0 I    4.4 I   21.0 I   28.0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                5  I      9 I     47 I      2 I      7 I      5 I     22 I      8 I     12 I     64 I     12 I    189
  BACK PORCH       I    4.8 I   24.9 I    1.1 I    3.7 I    2.6 I   11.6 I    4.2 I    6.3 I   33.9 I    6.3 I    3.5
                   I    8.4 I    4.5 I     .8 I    4.0 I    2.2 I    5.0 I    1.2 I     .9 I    6.9 I    8.4 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                6  I      5 I     43 I      6 I     15 I     10 I     20 I     12 I     89 I     40 I      7 I    249
  PRIVATE SIDEWALK I    2.0 I   17.3 I    2.4 I    6.0 I    4.0 I    8.0 I    4.8 I   35.7 I   16.1 I    2.8 I    4.7
                   I    4.7 I    4.1 I    2.4 I    8.5 I    4.4 I    4.6 I    1.8 I    6.7 I    4.3 I    4.9 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                7  I     10 I    172 I     41 I     36 I     29 I     62 I    140 I    647 I    150 I     16 I   1305
  PUBLIC SIDEWALK  I     .8 I   13.2 I    3.1 I    2.8 I    2.2 I    4.8 I   10.7 I   49.6 I   11.5 I    1.2 I   24.4
                   I    9.3 I   16.4 I   16.7 I   20.5 I   12.7 I   14.2 I   20.9 I   48.6 I   16.2 I   11.2 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                8  I      1 I      8 I      0 I      2 I      1 I      5 I      3 I      4 I      6 I      0 I     31
  STREET           I    3.2 I   25.8 I      0 I    6.5 I    3.2 I   16.1 I    9.7 I   12.9 I   19.4 I      0 I     .6
                   I     .9 I     .8 I      0 I    1.1 I     .4 I    1.1 I     .4 I     .3 I     .6 I      0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                9  I      0 I     22 I      5 I      4 I      5 I     10 I     12 I     20 I     34 I      3 I    116
  APRON            I      0 I   19.0 I    4.3 I    3.4 I    4.3 I    8.6 I   10.3 I   17.2 I   29.3 I    2.6 I    2.2
                   I      0 I    2.1 I    2.0 I    2.3 I    2.2 I    2.3 I    1.8 I    1.5 I    3.7 I    2.1 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               10  I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      3 I      0 I      0 I      3
  ALLEY            I      0 I      0 I      0 I      0 I      0 I      0 I      0 I  100.0 I      0 I      0 I     .1
                   I      0 I      0 I      0 I      0 I      0 I      0 I      0 I     .2 I      0 I      0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN       107     1050      245      176      229      436      670     1331      927      143     5344
            TOTAL       2.0     19.6      4.6      3.3      4.3      8.2     12.5     24.9     17.3      2.7    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * *
   SETTING                                                        BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  4

                          BEHAVIOR
                 COUNT  I
               ROW PCT  IEMOTIONA   ROW
               COL PCT  IL EXPRES  TOTAL
                        I    11   I
SETTING        --------I--------I
                     1  I     4   I   942
  FRONT YARD            I    .4   I  17.6
                        I  13.3   I
                       -I--------I
                     2  I     0   I   140
  SIDE YARD             I     0   I   2.6
                        I     0   I
                       -I--------I
                     3  I     9   I   792
  BACK YARD             I   1.1   I  14.8
                        I  30.0   I
                       -I--------I
                     4  I     8   I   644
  FRONT PORCH           I   1.2   I  12.1
                        I  26.7   I
                       -I--------I
                     5  I     1   I   189
  BACK PORCH            I    .5   I   3.5
                        I   3.3   I
                       -I--------I
                     6  I     2   I   249
  PRIVATE SIDEWALK      I    .8   I   4.7
                        I   6.7   I
                       -I--------I
                     7  I     2   I  1305
  PUBLIC SIDEWALK       I    .2   I  24.4
                        I   6.7   I
                       -I--------I
                     8  I     1   I    31
  STREET                I   3.2   I    .6
                        I   3.3   I
                       -I--------I
                     9  I     1   I   116
  APRON                 I    .9   I   2.2
                        I   3.3   I
                       -I--------I
                    10  I     0   I     3
  ALLEY                 I     0   I    .1
                        I     0   I
                       -I--------I
                COLUMN        30     5344
                 TOTAL        .6    100.0
(CONTINUED)
```

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* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   SETTING                                                        BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  3 OF  4

                    BEHAVIOR
           COUNT  I
         ROW PCT  IFORMAL I SOCIALIZ GAMES     WORK      SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING       ROW
         COL PCT  INF GAT-E ING                           PLAY     TING     SCLE ACT OUGH SPA G                    TOTAL
                  I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
SETTING   --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              11  I    10  I    92  I    15  I     8  I     9  I    30  I    54  I   138  I    48  I     5  I    411
  PUBLIC OPEN SPAC I   2.4  I  22.4  I   3.6  I   1.9  I   2.2  I   7.3  I  13.1  I  33.6  I  11.7  I   1.2  I    7.7
                  I   9.3  I   8.8  I   6.1  I   4.5  I   3.9  I   6.9  I   8.1  I  10.4  I   5.2  I   3.5  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              12  I     2  I    89  I     4  I     4  I    12  I    23  I   252  I    38  I    46  I     1  I    471
  PLAY GROUND     I    .4  I  18.9  I    .8  I    .8  I   2.5  I   4.9  I  53.5  I   8.1  I   9.8  I    .2  I    8.8
                  I   1.9  I   8.5  I   1.6  I   2.3  I   5.2  I   5.3  I  37.6  I   2.9  I   5.0  I    .7  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              13  I     0  I     2  I    20  I     0  I     4  I     0  I     2  I     2  I     2  I     0  I     32
  ACROSS SETTINGS I     0  I   6.3  I  62.5  I     0  I  12.5  I     0  I   6.3  I   6.3  I   6.3  I     0  I     .6
                  I     0  I    .2  I   8.2  I     0  I   1.7  I     0  I    .3  I    .2  I    .2  I     0  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              14  I     0  I     5  I     1  I     0  I     0  I     2  I     0  I    10  I     1  I     0  I     19
  OTHER           I     0  I  26.3  I   5.3  I     0  I     0  I  10.5  I     0  I  52.6  I   5.3  I     0  I     .4
                  I     0  I    .5  I    .4  I     0  I     0  I    .5  I     0  I    .8  I    .1  I     0  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN      107     1050      245      176      229      436      670     1331      927      143       5344
           TOTAL      2.0     19.6      4.6      3.3      4.3      8.2     12.5     24.9     17.3      2.7      100.0
(CONTINUED)
```

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* * * * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * * * *
   SETTING                                                                  BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  4 OF  4

                    BEHAVIOR
            COUNT  I
          ROW PCT  IEMOTIONA   ROW
          COL PCT  IL EXPRES  TOTAL
                   I    11   I
SETTING    --------I---------I
               11  I     2   I    411
  PUBLIC OPEN SPAC I    .5   I    7.7
                   I   6.7   I
                  -I---------I
               12  I     0   I    471
  PLAY GROUND      I     0   I    8.8
                   I     0   I
                  -I---------I
               13  I     0   I     32
  ACROSS SETTINGS  I     0   I     .6
                   I     0   I
                  -I---------I
               14  I     0   I     19
  OTHER            I     0   I     .4
                   I     0   I
                  -I---------I
           COLUMN        30      5344
            TOTAL        .6     100.0

RAW CHI SQUARE =  2106.29090 WITH   130 DEGREES OF FREEDOM.  SIGNIFICANCE =        0
CRAMER'S V =    .19853
CONTINGENCY COEFFICIENT =    .53171
LAMBDA (ASYMMETRIC) =    .08443 WITH SETTING  DEPENDENT.           =   .13431 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =    .10929
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .07447 WITH SETTING  DEPENDENT.           =   .07801 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .07620

NUMBER OF MISSING OBSERVATIONS =    26
```

TABLE 18

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* * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
   BEHAVIOR                                                           BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  1 OF  4

                   PROP
           COUNT  I
         ROW PCT  IFIXED,SE INANIMAT ANIMATE   PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU   ROW
         COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT    AL MATER NAL MATE OLS        TOYS   SCLE TOY SCLE TOY  TOTAL
                  I      1  I      2  I      3  I      4  I      5  I      6  I      7  I      8  I      9  I     10  I
BEHAVIOR  --------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                1 I      7  I      5  I      6  I      0  I     10  I     41  I      3  I      0  I      2  I      5  I     85
  FORMAL INF GAT-E I    8.2  I    5.9  I    7.1  I      0  I   11.8  I   48.2  I    3.5  I      0  I    2.4  I    5.9  I    2.5
                  I    2.6  I    1.4  I    2.5  I      0  I    2.5  I   32.0  I    1.8  I      0  I    2.0  I     .8  I
                 -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                2 I     65  I     43  I     47  I     62  I     64  I     22  I      7  I     36  I     20  I     66  I    500
  SOCIALIZING     I   13.0  I    8.6  I    9.4  I   12.4  I   12.8  I    4.4  I    1.4  I    7.2  I    4.0  I   13.2  I   14.9
                  I   23.8  I   11.8  I   19.4  I   14.8  I   16.2  I   17.2  I    4.2  I   15.0  I   19.6  I   10.5  I
                 -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                3 I      1  I     19  I     21  I     22  I     17  I      0  I     14  I      3  I     16  I     71  I    188
  GAMES           I     .5  I   10.1  I   11.2  I   11.7  I    9.0  I      0  I    7.4  I    1.6  I    8.5  I   37.8  I    5.6
                  I     .4  I    5.2  I    8.7  I    5.2  I    4.3  I      0  I    8.3  I    1.2  I   15.7  I   11.3  I
                 -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                4 I      6  I      2  I     14  I      3  I     25  I      2  I     69  I      3  I      0  I     30  I    1[illegible]
  WORK            I    3.4  I    1.1  I    8.0  I    1.7  I   14.2  I    1.1  I   39.2  I    1.7  I      0  I   17.0  I    5[illegible]
                  I    2.2  I     .5  I    5.8  I     .7  I    6.3  I    1.6  I   41.1  I    1.2  I      0  I    4.8  I
                 -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                5 I      6  I     13  I      8  I      9  I     12  I      4  I     10  I    114  I      7  I     17  I    208
  SYMBOLIC PLAY   I    2.9  I    6.3  I    3.8  I    4.3  I    5.8  I    1.9  I    4.8  I   54.8  I    3.4  I    8.2  I    6.2
                  I    2.2  I    3.6  I    3.3  I    2.1  I    3.0  I    3.1  I    6.0  I   47.5  I    6.9  I    2.7  I
                 -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                6 I     25  I    191  I     43  I      5  I     70  I      3  I     24  I     13  I      7  I     21  I    427
  MANIPULATING    I    5.9  I   44.7  I   10.1  I    1.2  I   16.4  I     .7  I    5.6  I    3.0  I    1.6  I    4.9  I   12.7
                  I    9.2  I   52.5  I   17.8  I    1.2  I   17.7  I    2.3  I   14.3  I    5.4  I    6.9  I    3.3  I
                 -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                7 I     75  I     23  I     49  I    261  I     47  I      3  I     14  I     21  I      9  I     88  I    602
  LARGE MUSCLE ACT I   12.5  I    3.8  I    8.1  I   43.4  I    7.8  I     .5  I    2.3  I    3.5  I    1.5  I   14.6  I   18.0
                  I   27.5  I    6.3  I   20.2  I   62.1  I   11.9  I    2.3  I    8.3  I    8.8  I    8.8  I   14.0  I
                 -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                8 I     14  I     32  I     49  I     27  I     79  I     42  I     15  I     24  I     15  I    250  I    620
  MOVE THROUGH SPA I    2.3  I    5.2  I    7.9  I    4.4  I   12.7  I    6.8  I    2.4  I    3.9  I    2.4  I   40.3  I   18.5
                  I    5.1  I    8.8  I   20.2  I    6.4  I   20.0  I   32.8  I    8.9  I   10.0  I   14.7  I   39.7  I
                 -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                9 I     70  I     29  I      4  I     31  I     59  I     10  I     10  I     25  I     24  I     77  I    383
  OBSERVING       I   18.3  I    7.6  I    1.0  I    8.1  I   15.4  I    2.6  I    2.6  I    6.5  I    6.3  I   20.1  I   11.4
                  I   25.6  I    8.0  I    1.7  I    7.4  I   14.9  I    7.8  I    6.0  I   10.4  I   23.5  I   12.2  I
                 -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
               10 I      0  I      3  I      0  I      0  I     10  I      0  I      2  I      1  I      1  I      3  I    139
  EATING          I      0  I    2.2  I      0  I      0  I    7.2  I      0  I    1.4  I     .7  I     .7  I    2.2  I    4.1
                  I      0  I     .8  I      0  I      0  I    2.5  I      0  I    1.2  I     .4  I    1.0  I     .5  I
                 -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
           COLUMN      273       364       242       420       395       128       168       240       102       629     3351
            TOTAL      8.1      10.9       7.2      12.5      11.8       3.8       5.0       7.2       3.0      18.8    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
  BEHAVIOR                                                     BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  2 OF  4

                     PROP
           COUNT   I
           ROW PCT ICLOTHING FOOD      MIXED         ROW
           COL PCT I                                 TOTAL
                   I    11   I    12   I    13   I
BEHAVIOR   --------I---------I---------I---------I
                 1 I       1 I       5 I       0 I     85
  FORMAL INF GAT-E I     1.2 I     5.9 I       0 I    2.5
                   I     1.0 I     1.8 I       0 I
                  -I---------I---------I---------I
                 2 I      18 I      45 I       5 I    500
  SOCIALIZING      I     3.6 I     9.0 I     1.0 I   14.9
                   I    18.8 I    16.5 I    22.7 I
                  -I---------I---------I---------I
                 3 I       0 I       2 I       2 I    188
  GAMES            I       0 I     1.1 I     1.1 I    5.6
                   I       0 I      .7 I     9.1 I
                  -I---------I---------I---------I
                 4 I      19 I       2 I       1 I    176
  WORK             I    10.8 I     1.1 I      .6 I    5.3
                   I    19.8 I      .7 I     4.5 I
                  -I---------I---------I---------I
                 5 I       7 I       1 I       0 I    208
  SYMBOLIC PLAY    I     3.4 I      .5 I       0 I    6.2
                   I     7.3 I      .4 I       0 I
                  -I---------I---------I---------I
                 6 I      16 I       5 I       4 I    427
  MANIPULATING     I     3.7 I     1.2 I      .9 I   12.7
                   I    16.7 I     1.8 I    18.2 I
                  -I---------I---------I---------I
                 7 I       3 I       8 I       1 I    602
  LARGE MUSCLE ACT I      .5 I     1.3 I      .2 I   18.0
                   I     3.1 I     2.9 I     4.5 I
                  -I---------I---------I---------I
                 8 I      19 I      47 I       7 I    620
  MOVE THROUGH SPA I     3.1 I     7.6 I     1.1 I   18.5
                   I    19.8 I    17.3 I    31.8 I
                  -I---------I---------I---------I
                 9 I      11 I      31 I       2 I    383
  OBSERVING        I     2.9 I     8.1 I      .5 I   11.4
                   I    11.5 I    11.4 I     9.1 I
                  -I---------I---------I---------I
                10 I       1 I     118 I       0 I    139
  EATING           I      .7 I    84.9 I       0 I    4.1
                   I     1.0 I    43.4 I       0 I
                  -I---------I---------I---------I
            COLUMN        96       272        22      3351
             TOTAL       2.9       8.1        .7     100.0
(CONTINUED)
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216

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* * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
   BEHAVIOR                                                             BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  3 OF  4

                    PROP
          COUNT  I
        ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC SMALL MU LARGE MU   ROW
        COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS        TOYS   SCLE TOY SCLE TOY  TOTAL
                 I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
BEHAVIOR --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             11  I     4  I     4  I     1  I     0  I     2  I     1  I     0  I     0  I     1  I     1  I    23
  EMOTIONAL EXPRES I  17.4  I  17.4  I   4.3  I     0  I   8.7  I   4.3  I     0  I     0  I   4.3  I   4.3  I    .7
                 I   1.5  I   1.1  I    .4  I     0  I    .5  I    .8  I     0  I     0  I   1.0  I    .2  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
         COLUMN      273      364      242      420      395      128      168      240      102      629     3351
          TOTAL      8.1     10.9      7.2     12.5     11.8      3.8      5.0      7.2      3.0     18.8    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
    BEHAVIOR                                                   BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  4 OF  4

                    PROP
            COUNT  I
            ROW PCT ICLOTHING FOOD     MIXED      ROW
            COL PCT I                             TOTAL
                   I     11  I     12  I     13  I
BEHAVIOR   --------I---------I---------I---------I
               11  I      1  I      8  I      0  I     23
  EMOTIONAL EXPRES I    4.3  I   34.8  I      0  I     .7
                   I    1.0  I    2.9  I      0  I
                  -I---------I---------I---------I
           COLUMN        96       272        22     3351
            TOTAL       2.9       8.1        .7    100.0

RAW CHI SQUARE =  4570.43880 WITH   120 DEGREES OF FREEDOM.  SIGNIFICANCE =       0
CRAMER'S V =   .36931
CONTINGENCY COEFFICIENT =   .75959
LAMBDA (ASYMMETRIC) =   .24826 WITH BEHAVIOR DEPENDENT.          =   .23402 WITH PROP     DEPENDENT.
LAMBDA (SYMMETRIC) =   .24115
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .19594 WITH BEHAVIOR DEPENDENT.          =   .17884 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .18700

NUMBER OF MISSING OBSERVATIONS =  2019
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Spatial Occupation Patterns

All twenty-four zones were utilized to some degree. Usages stemmed from transition, getting from one place to another, to clustering in certain areas of the site. The four different phases of data collection showed different environmental settings being used. The phases consisted of winter, spring, summer, and fall.

Throughout the seasonal collection of data the most utilized environmental settings were the public sidewalk, the front yard and the back yard. There seemed to be little use made of the apron area, side yard and back porches. Perhaps, one reason for little utilization of the apron area and the side yard was the unattractiveness of the areas. Both areas faced the street, and each street located by the research site was heavy with traffic. Also, the interior areas of the side yard had very little grass, if any. The base was dirt.

Due to the heavy use of the public sidewalk, one can surmise that the children of this area are socialized into using sidewalks. The reason one may confer this reasoning is due to the fact that in zones three and seven a hard surface base is in existence. These two areas showed very few children using these areas.

As mentioned above, four different phases of data collection were used. The findings indicate that depending on the season some environmental settings are more popular than others. During the winter the front yard seemed popular, while in the spring the playground, front yard, and trash dumpsters were utilized.

The summer phase showed both front yards and back yards heavily used, while the fall showed heavy back yard usage.

The popularity of the front area during the winter months may be due to the fact that the sun shines in this area. By the sun hitting this area it provides warmth and makes it more attractive for play. On the other hand, the backyard area tends to be shaded in the afternoon thus making it cooler and perhaps less attractive for children.

The use of both back yard and front yard during the summer may be explained by environmental play. While residents were watering their lawns, children tended to run through the water. Aside from this, the backyard area was shaded during the afternoon thus providing some coolness. Therefore, this had the opposite effect of the winter, where the children were less attracted to the area because of the coolness. One interesting finding for summer as opposed to winter was the playground use. During the winter the playground was heavily used, while in the summer there was less usage.

This may be explained by several reasons. During the winter environmental play may be less attractive than during the summer. Also, the playground is located in an area where there is little, if any, shade, thus making it more attractive in the winter due to the warmth of the sun. Perhaps, more importantly is the fact that during the summer collection of data a horseshoe area was erected inside the playground. This horseshoe game attracted younger adults and was heavily used by them. This may have made the playground area less attractive for the children during the winter.

The trash dumpsters located in certain sections of the research site were seldom used aside from the spring. There was one located at the end of zone three, which is the backyard area, that seemed popular. This had a drawing power for children. Interestingly, another trash dumpster was located in the same area, at the beginning of zone twenty-one, which did not attract children. Perhaps, attractiveness may be due to accessibility.

One other interesting finding was that the fences located at the end and beginning of each dwelling unit were not used. Children in this research site did not use the fences for props.

The findings showed no children hanging, climbing, or sitting on the fences. One can infer that the fences were functioning as intended, that is directing traffic throughout the area.

Throughout all phases of data collection one front area in zone two was used as a transition area. Very few children or adults were observed being stationary. This may be due to the fact that in this zone a social service agency is located. This agency is geared for teenagers, therefore, this area may be drawing these people and the younger children are elsewhere. However, there are dwelling units in this zone.

In zone three a small playground area is located, and this had a great drawing power for children. This playground is located in the backyard area. All pieces of play equipment were utilized. Overall, this whole zone was quite attractive for children, especially during the summer months. This is also applicable to zone four which is located in this same backyard area. This heavy usage may be accounted from the spillover of children from zones five and six which are front yard areas.

Interior zones five, six, nineteen, and twenty were heavily used throughout all phases. These four zones seemed to offer more security than any of the other zones. These zones were composed of front yard areas facing one another. They were far enough away from the street and parking lots which were heavily used by cars. More importantly, the entire area could be viewed from the front porch. Therefore, parents merely had to step out their front door in order to view the entire area.

Another important fact about these zones was the continuous flow of the public sidewalk. This made it attractive for children to ride tricycles, bicycles, big wheels, etc. They were able to go from one end to the other without any obstacles. Whereas in the backyard area the flow of the public sidewalk is obstructed with clothesline poles. The attractiveness of this area held true for all phases of collection, with the exception of the fall where proportionally there were fewer children.

Located at the beginning of zone seven, which is a backyard area, is a large open area with a cement base. This area has a fence around it with openings at both ends. During data collection there was little use of this area by children, with the exception of winter and fall. During these two faces this area was used as a passageway, however, during the summer no children were observed in this area.

As mentioned in the site description, two parking lots were located in this site. One in zone nine and the other in zones fifteen and sixteen. They are both similar in environmental setting., having front yard areas facing the parking lots on both sides. However, the parking lot in zone nine had less drawing power than the one in zones fifteen and sixteen.

The drawing power differences of each parking lot may be due to a variety of reasons. One being that the one located in zone nine tended to be somewhat less unkept as opposed to the ones in zones fifteen and sixteen. Although a basketball goal was erected in zone nine, it had a drawing power primarily for teenagers and younger adults. Perhaps, more importantly is the fact that the large playground area is located in this area (zone ten), and may be drawing the children away from zone nine.

As for the parking lot in zones fifteen and sixteen, it is much larger and a lot cleaner. This cleanliness may be due to the fact that the office for this housing project is located at the end of the parking lot (northern end). There seemed to be more vehicular traffic in this area, thus discouraging children's usage. It must be mentioned that the vast majority of children and adults were moving through this area.

The large playground area in zone ten was heavily utilized throughout the research project by the four to seven year-olds. However, the noteworthy finding was that two pieces of play equipment were rarely used. These were the jungle-gym set and, more importantly, the merry-go-round located on the east side.

Although a few children were located on the jungle-gym set, this may be unattractive because all one can do is climb. This may have some relationship with the fact that the fences were not used because one activity for fence use is climbing. As to why the merry-go-round was not used is hard to speculate. As can be best determined, it was in good working condition during data collection. For the remainder of play equipment, it seemed popular.

One interesting finding for fall data collection was that there seemed to be more clustering of children. By this is meant that throughout the other three phases of collection, children seemed to be utilizing the entire zone. Whereas in the fall only certain areas of the zone were utilized. An example would be as in zone three where there was heavy usage of the playground area and then very few children were observed until the other end of the zone. This was somewhat the norm for the remainder of the zones.

Social Interaction

The housing project site provided 3,931 interchanges of social interaction. Of these observations, 2,005 were recorded from 1:00-3:00 p.m., and the remaining 1,926 were recorded between 3:30-5:30 p.m. The most observed setting was the public sidewalk (26.4%), followed by the playground (23.7%).

Of the interaction reported, 72.6% involved Chicanos. The social language used in 97.4% of the interactions was all English, 1.6% all Spanish, and 1.0% a mixture of English and Spanish. The mean and median age of children observed was 6.5 years, with males comprising 59.2% of the observations.

Groups of two and three children comprised most of the sample, 85.0%. Same age children's groups accounted for 60% of the observations. Mixed sex groups were most frequently observed (44.3%), followed by male only groups (34.4%).

The most frequently observed interactions were paying attention to other's behavior, sharing, showing, cooperating, and no interactions. The least observed were empathy, praising, and refusing assistance.

Males were observed interacting on the public sidewalk 29.8%, while females most popular interaction setting was the playground. Both settings are in the public domain, although the playground area has more clearly defined boundaries. (Refer to Table 1 at the end of this section.) Females were most often observed paying attention to others, sharing, showing and cooperating, followed by talking, although the conversation was inaudible and could not be coded. Males also paid attention to others as a primary activity, and secondarily did not interact. Males were never observed empathizing and females never praised. Refer to Table 2.

Of all the interactions observed, 72.5% were conducted by children between the ages of six through nine. These children's most popular interaction was not interacting, followed by paying attention to others. For the three through five year-old group who comprised 23.8% of the sample, paying attention to others and imitating comprised the two most engaged in activities for a total of 21.8%. Refer to Table 3.

Size tends to influence social interaction in a strange manner. Tallest individuals and same size persons in groups tend to prefer not interacting. The shortest individual in the group tends to pay attention to others. Refer to Table 4.

Group size had little influence on social interaction with the exception of talking not understood and sharing, showing, and cooperating. These activities appear to be relatively more prone to occur in groups of three. Refer to Table 5.

Group sex configuration appears to influence social interaction. All male groups, for example, were most often paying attention to others. All female groups, on the other hand, were sharing, showing, and cooperating. Mixed sex groups were prone to act like the male group interactions.

Male only groups and mixed sex groups never were observed empathizing. All female groups, in contrast, were never observed talking aloud to anyone in particular or praising. Refer to Table 6.

Paying attention to others, sharing, showing, and cooperating, and not interacting were the most frequently observed social interactions. For paying attention to others, the public sidewalk was most popular, followed by the playground. Sharing, showing, and cooperating occurred most frequently in the playground and the front yard. Not interacting occurred in the public sidewalk and the playground. Refer to Table 7.

Summary Discussion: The results of the social interaction data are skewed to the taller Chicano male around six or seven years of age. In the housing project, children appear to mix ethnically in their outdoor groupings. Use of the Spanish language in social interactions appears to be at a minimum.

It is interesting to note that of the three most observed behaviors, two are other-directed, and one exhibits an attempt at mental privacy. From this pattern one can infer that the density of the population may create artificial groupings of individuals which can be utilized or disregarded. Paying attention to other's behavior and sharing, showing and cooperating also tend to point out some of the possible learning modalities used by the housing project children as they become socialized in the outdoor environment.

"Observe others so you can learn". The popularity of this particular interaction may indicate that if a child is interested in learning, his/her attention span will willingly be focused and maintained.

The interaction of sharing, showing, and cooperating has some implications for education. The group appears to be strong and perhaps is indicative of an acceptance of peer teaching in the educational system.

Finally, the popularity of no interaction is perhaps indicative of the housing project's young residents' ability to construct a personally private environment without physical isolation.

Hypothetically, the least observed social interactions could also be ordered as a dichotomy. Refusing assistance interactions could be strongly out of order assuming the group ethos of sharing and cooperating exists. At the same time, the lack of observable empathy or praise is another manifestation of the self-containment that may go on in connection with the interaction popularity.

In short, there appears to be appropriate times for a social grouping orientation, and appropriate times for a private inner-self orientation.

The learning of social roles may also be evident in the types and frequencies of social interactions. Females tended to be more group-oriented in their interactions, and never were recorded as praising. Males, on the other hand, never empathized, and accounted for the not interacting category's popularity. It should be remembered that all female groups tended to share and cooperate, while male groups were more often paying attention to others.

It is proposed that although housing projects are considered "public", there are distinct areas which are recognized by residents as being public, private, or communally private.

The distinction being drawn between private and communally private is best illustrated by example. Private areas are considered to be front yards, back yards, porches, private sidewalks, etc. Communally private areas, on the other hand, are areas such as the trash bins, playgrounds, and side yards which are common to groups of families, but not to the general public.

Given this spatial dimension, paying attention to others and not interacting are conducted on the most public areas, the sidewalks, then the communally private areas. Or another way of phrasing it is that more useful information is more likely to be obtained in a public space rather than a private one, and no interaction is likely to occur if one is paying attention to others. In contrast, sharing, showing, and cooperating occurs in relatively private settings.

TABLE 1

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* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
   SEX      CHILD SEX                                              BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

              SETTING
       COUNT  I
     ROW PCT  IFRONT YA SIDE YAR BACK YAR FRONT PO BACK POR PRIVATE  PUBLIC S STREET   APRON    PUBLIC O  ROW
     COL PCT  IRD      D        D        RCH      CH       SIDEWALK IDEWALK                    PEN SPAC  TOTAL
              I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    11  I
SEX   --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            1 I   429  I    69  I   214  I   193  I    30  I    57  I   688  I     4  I    16  I   284  I  2308
  MALE        I  18.6  I   3.0  I   9.3  I   8.4  I   1.3  I   2.5  I  29.8  I    .2  I    .7  I  12.3  I  59.2
              I  68.0  I  57.0  I  54.5  I  69.7  I  58.8  I  50.4  I  66.9  I 100.0  I 100.0  I  85.8  I
             -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            2 I   202  I    52  I   179  I    84  I    21  I    56  I   340  I     0  I     0  I    47  I  1588
  FEMALE      I  12.7  I   3.3  I  11.3  I   5.3  I   1.3  I   3.5  I  21.4  I     0  I     0  I   3.0  I  40.8
              I  32.0  I  43.0  I  45.5  I  30.3  I  41.2  I  49.6  I  33.1  I     0  I     0  I  14.2  I
             -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
       COLUMN     631      121      393      277       51      113     1028        4       16      331     3896
        TOTAL    16.2      3.1     10.1      7.1      1.3      2.9     26.4       .1       .4      8.5    100.0


              SETTING
       COUNT  I
     ROW PCT  IPLAYGROU OTHER      ROW
     COL PCT  IND                  TOTAL
              I    12  I    14  I
SEX   --------I--------I--------I
            1 I   324  I     0  I  2308
  MALE        I  14.0  I     0  I  59.2
              I  34.8  I     0  I
             -I--------I--------I
            2 I   606  I     1  I  1588
  FEMALE      I  38.2  I    .1  I  40.8
              I  65.2  I 100.0  I
             -I--------I--------I
       COLUMN     930        1     3896
        TOTAL    23.9       .0    100.0

RAW CHI SQUARE =   406.48994 WITH    11 DEGREES OF FREEDOM.  SIGNIFICANCE =       0
CRAMER'S V =    .32301
CONTINGENCY COEFFICIENT =    .30737
LAMBDA (ASYMMETRIC) =    .17821 WITH SEX       DEPENDENT.          =   .09275 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =    .12320
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .08077 WITH SEX       DEPENDENT.          =   .02849 WITH SETTING  DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .04213

NUMBER OF MISSING OBSERVATIONS =    35
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TABLE 2

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* * * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * * *
   SEX      CHILD SEX                                     BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  2

               SOCBEH
        COUNT  I
      ROW PCT  IASKING A OFFERING RECEIVIN REFUSING CALL ATT CALL ATT PAY ATTN PRAISING ASKING P SUBMIT T   ROW
      COL PCT  ISSISTANC  ASSISTA G ASSIST  ASSISTA N OWN BE  OTHERS   OTHERS           ERMISSIO O DIRECT  TOTAL
               I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
SEX    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            1  I     14 I     33 I     13 I      2 I    125 I     23 I    227 I      5 I      9 I     41 I  2305
  MALE         I     .6 I    1.4 I     .6 I     .1 I    5.4 I    1.0 I    9.8 I     .2 I     .4 I    1.8 I  59.2
               I   63.6 I   27.3 I   16.4 I   50.0 I   62.2 I   76.7 I   60.5 I  100.0 I   60.0 I   45.6 I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            2  I      8 I     88 I     15 I      2 I     76 I      7 I    148 I      0 I      6 I     49 I  1586
  FEMALE       I     .5 I    5.5 I     .9 I     .1 I    4.8 I     .4 I    9.3 I      0 I     .4 I    3.1 I  40.8
               I   36.4 I   72.7 I   53.6 I   50.0 I   37.8 I   23.3 I   39.5 I      0 I   40.0 I   54.4 I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
       COLUMN        22      121       28        4      201       30      375        5       15       90    3891
        TOTAL        .6      3.1       .7       .1      5.2       .8      9.6       .1       .4      2.3   100.0


               SOCBEH
        COUNT  I
      ROW PCT  IASKING Q TELL WHA ADMONISH TEACHING AGREEING SHARE,SH ASSERT O AGGRESSI TEASING  WITHDRAW   ROW
      COL PCT  IUESTIONS T TO DO           ,MODELIN          OW,COOPE WNERSHIP ON                ING       TOTAL
               I     11 I     12 I     13 I     14 I     15 I     16 I     17 I     18 I     19 I     20 I
SEX    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            1  I     68 I    140 I     17 I    136 I     29 I    176 I     41 I     41 I     63 I    119 I  2305
  MALE         I    3.0 I    6.1 I     .7 I    5.9 I    1.3 I    7.6 I    1.8 I    1.8 I    2.7 I    5.2 I  59.2
               I   56.7 I   62.5 I   44.7 I   54.4 I   58.0 I   55.9 I   71.9 I   91.1 I   70.8 I   68.0 I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            2  I     52 I     84 I     21 I    114 I     21 I    139 I     16 I      4 I     26 I     56 I  1586
  FEMALE       I    3.3 I    5.3 I    1.3 I    7.2 I    1.3 I    8.8 I    1.0 I     .3 I    1.6 I    3.5 I  40.8
               I   43.3 I   37.5 I   55.3 I   45.6 I   42.0 I   44.1 I   28.1 I    8.9 I   29.2 I   32.0 I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
       COLUMN       120      224       38      250       50      315       57       45       89      175    3891
        TOTAL       3.1      5.8      1.0      6.4      1.3      8.1      1.5      1.2      2.3      4.5   100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   SEX      CHILD SEX                                      BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

                 SOCBEH
         COUNT  I
         ROW PCT IJOINING  ASSERTIN REFUSING IGNORING IMITATIN ROLE PLA EMOTIONA EMPATHY  TALK-NOT TALK-NO   ROW
         COL PCT IGROUP    G SELF                     G        YING     L EXPRES          UNDERST ONE PART  TOTAL
                 I    21  I    22  I    23  I    24  I    25  I    26  I    27  I    28  I    29  I    30  I
SEX      --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               1 I    57  I    76  I    35  I   138  I   138  I    94  I   100  I     0  I   146  I     6  I  2305
  MALE           I   2.5  I   3.3  I   1.5  I   6.0  I   6.0  I   4.1  I   4.3  I     0  I   6.3  I    .3  I  59.2
                 I  58.8  I  61.3  I  54.7  I  58.5  I  56.6  I  84.7  I  62.5  I     0  I  52.3  I  66.7  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2 I    40  I    48  I    29  I    98  I   106  I    17  I    60  I     1  I   133  I     3  I  1586
  FEMALE         I   2.5  I   3.0  I   1.8  I   6.2  I   6.7  I   1.1  I   3.8  I    .1  I   8.4  I    .2  I  40.8
                 I  41.2  I  38.7  I  45.3  I  41.5  I  43.4  I  15.3  I  37.5  I 100.0  I  47.7  I  33.3  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
         COLUMN       97       124        64       236       244       111       160         1       279         9     3891
          TOTAL      2.5       3.2       1.6       6.1       6.3       2.9       4.1        .0       7.2        .2    100.0


                 SOCBEH
         COUNT  I
         ROW PCT INOT INTE   ROW
         COL PCT IRACTING   TOTAL
                 I    35  I
SEX      --------I--------I
               1 I   193  I  2305
  MALE           I   8.4  I  59.2
                 I  61.9  I
                -I--------I
               2 I   119  I  1586
  FEMALE         I   7.5  I  40.8
                 I  38.1  I
                -I--------I
         COLUMN      312     3891
          TOTAL      8.0    100.0

RAW CHI SQUARE =   150.46653 WITH    30 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .19665
CONTINGENCY COEFFICIENT =    .19295
LAMBDA (ASYMMETRIC) =   .04414 WITH SEX       DEPENDENT.           =        0 WITH SOCBEH   DEPENDENT.
LAMBDA (SYMMETRIC) =   .01372
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .03059 WITH SEX      DEPENDENT.          =   .00676 WITH SOCBEH   DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .01107

NUMBER OF MISSING OBSERVATIONS =    40
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TABLE 3

```
* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * *
   AGECAT    AGE CATEGORY                                        BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  1 OF  2

                  SOCBEH
           COUNT  I
         ROW PCT  IASKING A OFFERING RECEIVIN REFUSING CALL ATT CALL ATT PAY ATTN PRAISING ASKING P SUBMIT T   ROW
         COL PCT  ISSISTANC  ASSISTA G ASSIST  ASSISTA N OWN BE  OTHERS   OTHERS           ERMISSIO O DIRECT  TOTAL
                  I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
AGECAT    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               1  I     8  I    13  I    11  I     0  I    56  I    10  I   117  I     0  I     4  I    23  I   931
  3-5             I    .9  I   1.4  I   1.2  I     0  I   6.0  I   1.1  I  12.6  I     0  I    .4  I   2.5  I  23.8
                  I  36.4  I  10.7  I  39.3  I     0  I  27.9  I  31.3  I  31.1  I     0  I  26.7  I  25.6  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2  I    14  I   106  I    17  I     4  I   142  I    21  I   247  I     4  I    11  I    65  I  2838
  6-9             I    .5  I   3.7  I    .6  I    .1  I   5.0  I    .7  I   8.7  I    .1  I    .4  I   2.3  I  72.5
                  I  63.6  I  86.9  I  60.7  I 100.0  I  70.6  I  65.6  I  65.7  I  80.0  I  73.3  I  72.2  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               3  I     0  I     3  I     0  I     0  I     3  I     1  I    12  I     1  I     0  I     2  I   144
  10-12           I     0  I   2.1  I     0  I     0  I   2.1  I    .7  I   8.3  I    .7  I     0  I   1.4  I   3.7
                  I     0  I   2.5  I     0  I     0  I   1.5  I   3.1  I   3.2  I  20.0  I     0  I   2.2  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN        22      122       28        4      201       32      376        5       15       90     3913
           TOTAL        .6      3.1       .7       .1      5.1       .8      9.6       .1       .4      2.3    100.0


                  SOCBEH
           COUNT  I
         ROW PCT  IASKING Q TELL WHA ADMONISH TEACHING AGREEING SHARE,SH ASSERT O AGGRESSI TEASING  WITHDRAW   ROW
         COL PCT  IUESTIONS T TO DO           ,MODELIN          OW,COOPE WNERSHIP ON                ING       TOTAL
                  I    11  I    12  I    13  I    14  I    15  I    16  I    17  I    18  I    19  I    20  I
AGECAT    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               1  I    32  I    50  I     9  I    58  I    15  I    67  I    14  I    20  I    17  I    55  I   931
  3-5             I   3.4  I   5.4  I   1.0  I   6.2  I   1.6  I   7.2  I   1.5  I   2.1  I   1.8  I   5.9  I  23.8
                  I  26.9  I  22.3  I  23.7  I  22.9  I  29.4  I  21.1  I  24.1  I  44.4  I  18.7  I  30.6  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2  I    78  I   168  I    27  I   188  I    34  I   234  I    41  I    24  I    67  I   116  I  2838
  6-9             I   2.7  I   5.9  I   1.0  I   6.6  I   1.2  I   8.2  I   1.4  I    .8  I   2.4  I   4.1  I  72.5
                  I  65.5  I  75.0  I  71.1  I  74.3  I  66.7  I  73.6  I  70.7  I  53.3  I  73.6  I  64.4  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               3  I     9  I     6  I     2  I     7  I     2  I    17  I     3  I     1  I     7  I     9  I   144
  10-12           I   6.3  I   4.2  I   1.4  I   4.9  I   1.4  I  11.8  I   2.1  I    .7  I   4.9  I   6.3  I   3.7
                  I   7.6  I   2.7  I   5.3  I   2.8  I   3.9  I   5.3  I   5.2  I   2.2  I   7.7  I   5.0  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN       119      224       38      253       51      318       58       45       91      180     3913
           TOTAL       3.0      5.7      1.0      6.5      1.3      8.1      1.5      1.2      2.3      4.6    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
   AGECAT    AGE CATEGORY                                    BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

              SOCBEH
      COUNT  I
     ROW PCT IJOINING  ASSERTIN REFUSING IGNORING IMITATIN ROLE PLA EMOTIONA EMPATHY  TALK-NOT TALK-NO    ROW
     COL PCT IGROUP    G SELF                     G        YING     L EXPRES          UNDERST  ONE PART  TOTAL
             I    21  I    22  I    23  I    24  I    25  I    26  I    27  I    28  I    29  I    30  I
AGECAT       --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           1 I    24  I    32  I    13  I    74  I    86  I    12  I    21  I     0  I    49  I     3  I    931
  3-5        I   2.6  I   3.4  I   1.4  I   7.9  I   9.2  I   1.3  I   2.3  I     0  I   5.3  I    .3  I   23.8
             I  24.2  I  25.8  I  20.3  I  31.4  I  35.2  I  10.7  I  13.3  I     0  I  17.5  I  33.3  I
            -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           2 I    68  I    90  I    49  I   152  I   155  I    97  I   136  I     1  I   218  I     5  I   2838
  6-9        I   2.4  I   3.2  I   1.7  I   5.4  I   5.5  I   3.4  I   4.8  I    .0  I   7.7  I    .2  I   72.5
             I  68.7  I  72.6  I  76.6  I  64.4  I  63.5  I  86.6  I  86.1  I 100.0  I  77.9  I  55.6  I
            -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           3 I     7  I     2  I     2  I    10  I     3  I     3  I     1  I     0  I    13  I     1  I    144
  10-12      I   4.9  I   1.4  I   1.4  I   6.9  I   2.1  I   2.1  I    .7  I     0  I   9.0  I    .7  I    3.7
             I   7.1  I   1.6  I   3.1  I   4.2  I   1.2  I   2.7  I    .6  I     0  I   4.6  I  11.1  I
            -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
      COLUMN      99       124       64       236       244       112       158        1       280         9     3913
       TOTAL     2.5       3.2      1.6       6.0       6.2       2.9       4.0       .0       7.2        .2    100.0


              SOCBEH
      COUNT  I
     ROW PCT INOT INTE   ROW
     COL PCT IRACTING   TOTAL
             I    35  I
AGECAT       --------I--------I
           1 I    38  I    931
  3-5        I   4.1  I   23.8
             I  12.1  I
            -I--------I
           2 I   259  I   2838
  6-9        I   9.1  I   72.5
             I  82.5  I
            -I--------I
           3 I    17  I    144
  10-12      I  11.8  I    3.7
             I   5.4  I
            -I--------I
      COLUMN     314      3913
       TOTAL     8.0     100.0

RAW CHI SQUARE =    172.21231 WITH     60 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .14834
CONTINGENCY COEFFICIENT =    .20532
LAMBDA (ASYMMETRIC) =          0 WITH AGECAT   DEPENDENT.          =   .00481 WITH SOCBEH   DEPENDENT.
LAMBDA (SYMMETRIC) =    .00369
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .03315 WITH AGECAT   DEPENDENT.          =   .00754 WITH SOCBEH   DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .01229
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TABLE 4

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* * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
   SIZE     CHILD SIZE, IN RELATION TO TALLEST            BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  1 OF  4

               SOCBEH
        COUNT   I
      ROW PCT   IASKING A OFFERING RECEIVIN REFUSING CALL ATT CALL ATT PAY ATTN PRAISING ASKING P SUBMIT T   ROW
      COL PCT   ISSISTANC  ASSISTA G ASSIST  ASSISTA N OWN BE  OTHERS   OTHERS           ERMISSIO O DIRECT  TOTAL
                I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
SIZE    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              1 I      9 I      7 I      8 I      0 I     45 I      8 I     90 I      0 I      4 I     25 I    859
  SHORTEST      I    1.0 I     .8 I     .9 I      0 I    5.2 I     .9 I   10.5 I      0 I     .5 I    2.9 I   21.9
                I   40.9 I    5.7 I   28.6 I      0 I   22.4 I   25.8 I   23.9 I      0 I   26.7 I   27.8 I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              2 I      2 I     11 I      5 I      1 I     19 I      3 I     72 I      1 I      1 I     12 I    529
  SHORTER       I     .4 I    2.1 I     .9 I     .2 I    3.6 I     .6 I   13.6 I     .2 I     .2 I    2.3 I   13.5
                I    9.1 I    9.0 I   17.9 I   25.0 I    9.5 I    9.7 I   19.1 I   20.0 I    6.7 I   13.3 I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              3 I      3 I     31 I      6 I      1 I     48 I      6 I     68 I      3 I      3 I     16 I    703
  ALL SAME      I     .4 I    4.4 I     .9 I     .1 I    6.8 I     .9 I    9.7 I     .4 I     .4 I    2.3 I   18.0
                I   13.6 I   25.4 I   21.4 I   25.0 I   23.9 I   19.4 I   18.1 I   60.0 I   20.0 I   17.8 I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              4 I      5 I     23 I      5 I      1 I     50 I     10 I     74 I      0 I      4 I     18 I    820
  TALLER        I     .6 I    2.8 I     .6 I     .1 I    6.1 I    1.2 I    9.0 I      0 I     .5 I    2.2 I   21.0
                I   22.7 I   18.9 I   17.9 I   25.0 I   24.9 I   32.3 I   19.7 I      0 I   26.7 I   20.0 I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              5 I      3 I     50 I      4 I      1 I     39 I      4 I     72 I      1 I      3 I     19 I   1003
  TALLEST       I     .3 I    5.0 I     .4 I     .1 I    3.9 I     .4 I    7.2 I     .1 I     .3 I    1.9 I   25.6
                I   13.6 I   41.0 I   14.3 I   25.0 I   19.4 I   12.9 I   19.1 I   20.0 I   20.0 I   21.1 I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
         COLUMN       22      122       28        4      201       31      376        5       15       90     3914
          TOTAL       .6      3.1       .7       .1      5.1       .8      9.6       .1       .4      2.3    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * *
    SIZE      CHILD SIZE, IN RELATION TO TALLEST          BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  4

                    SOCBEH
             COUNT I
           ROW PCT IASKING Q TELL WHA ADMONISH TEACHING AGREEING SHARE,SH ASSERT O AGGRESSI TEASING  WITHDRAW    ROW
           COL PCT IUESTIONS T TO DO           ,MODELIN          OW,COOPE WNERSHIP ON                ING        TOTAL
                   I     11 I     12 I     13 I     14 I     15 I     16 I     17 I     18 I     19 I     20 I
SIZE --------------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 1 I     38 I     40 I      6 I     51 I      6 I     70 I     12 I     12 I     19 I     35 I    859
  SHORTEST         I    4.4 I    4.7 I     .7 I    5.9 I     .7 I    8.1 I    1.4 I    1.4 I    2.2 I    4.1 I   21.9
                   I   31.9 I   17.8 I   15.8 I   20.2 I   11.8 I   22.0 I   20.7 I   26.7 I   20.9 I   19.4 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 2 I     24 I     26 I      5 I     34 I     11 I     43 I      7 I      7 I     12 I     15 I    529
  SHORTER          I    4.5 I    4.9 I     .9 I    6.4 I    2.1 I    8.1 I    1.3 I    1.3 I    2.3 I    2.8 I   13.5
                   I   20.2 I   11.6 I   13.2 I   13.4 I   21.6 I   13.5 I   12.1 I   15.6 I   13.2 I    8.3 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 3 I     10 I     61 I      5 I     42 I      9 I     53 I      4 I      7 I     13 I      9 I    703
  ALL SAME         I    1.4 I    8.7 I     .7 I    6.0 I    1.3 I    7.5 I     .6 I    1.0 I    1.8 I    1.3 I   18.0
                   I    8.4 I   27.1 I   13.2 I   16.6 I   17.6 I   16.7 I    6.9 I   15.6 I   14.3 I    5.0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 4 I     18 I     50 I      7 I     61 I     13 I     72 I     18 I      7 I     18 I     55 I    820
  TALLER           I    2.2 I    6.1 I     .9 I    7.4 I    1.6 I    8.8 I    2.2 I     .9 I    2.2 I    6.7 I   21.0
                   I   15.1 I   22.2 I   18.4 I   24.1 I   25.5 I   22.6 I   31.0 I   15.6 I   19.8 I   30.6 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 5 I     29 I     48 I     15 I     65 I     12 I     80 I     17 I     12 I     29 I     66 I   1003
  TALLEST          I    2.9 I    4.8 I    1.5 I    6.5 I    1.2 I    8.0 I    1.7 I    1.2 I    2.9 I    6.6 I   25.6
                   I   24.4 I   21.3 I   39.5 I   25.7 I   23.5 I   25.2 I   29.3 I   26.7 I   31.9 I   36.7 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            COLUMN      119      225       38      253       51      318       58       45       91      180     3914
             TOTAL      3.0      5.7      1.0      6.5      1.3      8.1      1.5      1.1      2.3      4.6    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * *
   SIZE      CHILD SIZE, IN RELATION TO TALLEST           BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  3 OF  4

                 SOCBEH
          COUNT  I
        ROW PCT  IJOINING  ASSERTIN REFUSING IGNORING IMITATIN ROLE PLA EMOTIONA EMPATHY  TALK-NOT TALK-NO    ROW
        COL PCT  IGROUP    G SELF                     G        YING     L EXPRES          UNDERST  ONE PART  TOTAL
                 I     21  I     22  I     23  I     24  I     25  I     26  I     27  I     28  I     29  I     30  I
SIZE     --------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
              1  I     26  I     19  I     17  I     39  I     75  I     12  I     52  I      0  I     74  I      6  I    859
  SHORTEST       I    3.0  I    2.2  I    2.0  I    4.5  I    8.7  I    1.4  I    6.1  I      0  I    8.6  I     .7  I   21.9
                 I   26.3  I   15.3  I   26.6  I   16.5  I   30.7  I   10.7  I   32.5  I      0  I   26.4  I   66.7  I
                -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
              2  I      8  I      8  I     13  I     43  I     47  I      8  I     17  I      0  I     43  I      1  I    529
  SHORTER        I    1.5  I    1.5  I    2.5  I    8.1  I    8.9  I    1.5  I    3.2  I      0  I    8.1  I     .2  I   13.5
                 I    8.1  I    6.5  I   20.3  I   18.2  I   19.3  I    7.1  I   10.6  I      0  I   15.4  I   11.1  I
                -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
              3  I      8  I     29  I     14  I     32  I     37  I     45  I     28  I      0  I     39  I      1  I    703
  ALL SAME       I    1.1  I    4.1  I    2.0  I    4.6  I    5.3  I    6.4  I    4.0  I      0  I    5.5  I     .1  I   18.0
                 I    8.1  I   23.4  I   21.9  I   13.6  I   15.2  I   40.2  I   17.5  I      0  I   13.9  I   11.1  I
                -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
              4  I     24  I     30  I      9  I     47  I     42  I     16  I     36  I      1  I     53  I      0  I    820
  TALLER         I    2.9  I    3.7  I    1.1  I    5.7  I    5.1  I    2.0  I    4.4  I     .1  I    6.5  I      0  I   21.0
                 I   24.2  I   24.2  I   14.1  I   19.9  I   17.2  I   14.3  I   22.5  I  100.0  I   18.9  I      0  I
                -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
              5  I     33  I     38  I     11  I     75  I     43  I     31  I     27  I      0  I     71  I      1  I   1003
  TALLEST        I    3.3  I    3.8  I    1.1  I    7.5  I    4.3  I    3.1  I    2.7  I      0  I    7.1  I     .1  I   25.6
                 I   33.3  I   30.6  I   17.2  I   31.8  I   17.6  I   27.7  I   16.9  I      0  I   25.4  I   11.1  I
                -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
         COLUMN        99       124        64       236       244       112       160         1       280         9     3914
          TOTAL       2.5       3.2       1.6       6.0       6.2       2.9       4.1        .0       7.2        .2    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * *
   SIZE      CHILD SIZE, IN RELATION TO TALLEST           BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  4 OF  4

                SOCBEH
         COUNT  I
       ROW PCT  INOT INTE   ROW
       COL PCT  IRACTING    TOTAL
                I    35  I
SIZE    --------I--------I
              1 I    54  I    859
  SHORTEST      I   6.3  I   21.9
                I  17.3  I
               -I--------I
              2 I    30  I    529
  SHORTER       I   5.7  I   13.5
                I   9.6  I
               -I--------I
              3 I    72  I    703
  ALL SAME      I  10.2  I   18.0
                I  23.0  I
               -I--------I
              4 I    53  I    820
  TALLER        I   6.5  I   21.0
                I  16.9  I
               -I--------I
              5 I   104  I   1003
  TALLEST       I  10.4  I   25.6
                I  33.2  I
               -I--------I
         COLUMN     313      3914
          TOTAL     8.0     100.0

RAW CHI SQUARE =   339.75059 WITH   120 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =   .14731
CONTINGENCY COEFFICIENT =   .28261
LAMBDA (ASYMMETRIC) =   .05634 WITH SIZE     DEPENDENT.          =   .01018 WITH SOCBEH   DEPENDENT.
LAMBDA (SYMMETRIC) =   .03101
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .02771 WITH SIZE     DEPENDENT.          =   .01438 WITH SOCBEH   DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .01894

NUMBER OF MISSING OBSERVATIONS =    17
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TABLE 5

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* * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
   GPSIZE    SIZE OF GROUP                           BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  1 OF  4

               SOCBEH
        COUNT  I
      ROW PCT  IASKING A OFFERING RECEIVIN REFUSING CALL ATT CALL ATT PAY ATTN PRAISING ASKING P SUBMIT T   ROW
      COL PCT  ISSISTANC  ASSISTA G ASSIST  ASSISTA N OWN BE  OTHERS   OTHERS           ERMISSIO O DIRECT  TOTAL
               I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
GPSIZE  -------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            2  I    12  I    36  I     6  I     1  I   107  I     9  I   161  I     1  I     5  I    43  I   1694
               I    .7  I   2.1  I    .4  I    .1  I   6.3  I    .5  I   9.5  I    .1  I    .3  I   2.5  I   43.7
               I  54.5  I  30.0  I  21.4  I  25.0  I  54.3  I  28.1  I  43.5  I  20.0  I  33.3  I  48.3  I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            3  I     9  I    67  I    17  I     3  I    65  I    16  I   157  I     1  I     6  I    31  I   1622
               I    .6  I   4.1  I   1.0  I    .2  I   4.0  I   1.0  I   9.7  I    .1  I    .4  I   1.9  I   41.8
               I  40.9  I  55.8  I  60.7  I  75.0  I  33.0  I  50.0  I  42.4  I  20.0  I  40.0  I  34.8  I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            4  I     1  I    17  I     5  I     0  I    23  I     7  I    46  I     3  I     3  I    14  I    492
               I    .2  I   3.5  I   1.0  I     0  I   4.7  I   1.4  I   9.3  I    .6  I    .6  I   2.8  I   12.7
               I   4.5  I  14.2  I  17.9  I     0  I  11.7  I  21.9  I  12.4  I  60.0  I  20.0  I  15.7  I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            5  I     0  I     0  I     0  I     0  I     2  I     0  I     3  I     0  I     1  I     0  I     45
               I     0  I     0  I     0  I     0  I   4.4  I     0  I   6.7  I     0  I   2.2  I     0  I    1.2
               I     0  I     0  I     0  I     0  I   1.0  I     0  I    .8  I     0  I   6.7  I     0  I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            6  I     0  I     0  I     0  I     0  I     0  I     0  I     3  I     0  I     0  I     1  I     27
               I     0  I     0  I     0  I     0  I     0  I     0  I  11.1  I     0  I     0  I   3.7  I     .7
               I     0  I     0  I     0  I     0  I     0  I     0  I    .8  I     0  I     0  I   1.1  I
              -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
       COLUMN       22      120       28        4      197       32      370        5       15       89     3880
        TOTAL       .6      3.1       .7       .1      5.1       .8      9.5       .1       .4      2.3    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
   GPSIZE    SIZE OF GROUP                                           BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  2 OF  4

                    SOCBEH
           COUNT   I
          ROW PCT  IASKING Q TELL WHA ADMONISH TEACHING AGREEING SHARE,SH ASSERT O AGGRESSI TEASING  WITHDRAW   ROW
          COL PCT  IUESTIONS T TO DO           ,MODELIN          OW,COOPE WNERSHIP ON                ING        TOTAL
                   I    11  I    12  I    13  I    14  I    15  I    16  I    17  I    18  I    19  I    20  I
GPSIZE    ---------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                2  I    49  I   110  I    17  I   114  I    22  I   132  I    15  I    22  I    34  I    76  I   1694
                   I   2.9  I   6.5  I   1.0  I   6.7  I   1.3  !   7.8  I    .9  I   1.3  I   2.0  I   4.5  I   43.7
                   I  40.8  I  48.9  I  14.7  I  45.1  I  43.1  I  41.5  I  26.3  I  50.0  I  37.4  I  44.2  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                3  !    57  I    81  I    11  I   105  I    22  I   161  I    30  I    17  I    44  I    68  I   1622
                   I   3.5  I   5.0  I    .7  I   6.5  I   1.4  I   9.9  I   1.8  I   1.0  I   2.7  I   4.2  I   41.8
                   I  47.5  I  36.0  I  28.9  I  41.5  I  43.1  I  50.6  I  52.6  I  38.6  I  48.4  I  39.5  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                4  I     9  I    29  I     8  I    26  I     7  I    20  I    11  I     5  I    11  I    26  I    492
                   I   1.8  I   5.9  I   1.6  I   5.3  I   1.4  I   4.1  I   2.2  I   1.0  I   2.2  I   5.3  I   12.7
                   I   7.5  I  12.9  I  21.1  I  10.3  I  13.7  I   6.3  I  19.3  I  11.4  I  12.1  I  15.1  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                5  I     3  I     3  I     2  I     8  I     0  I     1  I     0  I     0  I     2  I     2  I     45
                   I   6.7  I   6.7  I   4.4  I  17.8  I     0  I   2.2  I     0  I     0  I   4.4  I   4.4  I    1.2
                   I   2.5  I   1.3  I   5.3  I   3.2  I     0  I    .3  I     0  I     0  I   2.2  I   1.2  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                6  I     2  I     2  I     0  I     0  I     0  I     4  I     1  I     0  I     0  I     0  I     27
                   I   7.4  I   7.4  I     0  I     0  I     0  I  14.8  I   3.7  I     0  I     0  I     0  !     .7
                   I   1.7  I    .9  I     0  I     0  I     0  I   1.3  I   1.8  I     0  I     0  I     0  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN      120      225       38      253       51      318       57       44       91      172     3880
            TOTAL      3.1      5.8      1.0      6.5      1.3      8.2      1.5      1.1      2.3      4.4    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
    GPSIZE    SIZE OF GROUP                                          BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  3 OF  4

                 SOCBEH
          COUNT  I
         ROW PCT IJOINING  ASSERTIN REFUSING IGNORING IMITATIN ROLE PLA EMOTIONA EMPATHY  TALK-NOT TALK-NO    ROW
         COL PCT IGROUP    G SELF                     G        YING     L EXPRES          UNDERST ONE PART  TOTAL
                 I    21  I    22  I    23  I    24  I    25  I    26  I    27  I    28  I    29  I    30  I
GPSIZE   --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2 I    21  I    68  I    28  I   106  I   120  I    65  I    58  I     0  I   100  I     2  I   1694
                 I   1.2  I   4.0  I   1.7  I   6.3  I   7.1  I   3.8  I   3.4  I     0  I   5.9  I    .1  I   43.7
                 I  21.6  I  54.8  I  13.8  I  45.5  I  49.6  I  58.0  I  36.7  I     0  I  35.8  I  22.2  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               3 I    40  I    46  I    27  I    88  I    98  I    38  I    72  I     1  I   129  I     4  I   1622
                 I   2.5  I   2.8  I   1.7  I   5.4  I   6.0  I   2.3  I   4.4  I    .1  I   8.0  I    .2  I   41.8
                 I  41.2  I  37.1  I  12.2  I  37.8  I  40.5  I  33.9  I  45.6  I 100.0  I  46.2  I  44.4  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               4 I    29  I     8  I     6  I    37  I    23  I     9  I    27  I     0  I    38  I     3  I    492
                 I   5.9  I   1.6  I   1.2  I   7.5  I   4.7  I   1.8  I   5.5  I     0  I   7.7  I    .6  I   12.7
                 I  29.9  I   6.5  I   9.4  I  15.9  I   9.5  I   8.0  I  17.1  I     0  I  13.6  I  33.3  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               5 I     4  I     0  I     1  I     1  I     1  I     0  I     1  I     0  I     8  I     0  I     45
                 I   8.9  I     0  I   2.2  I   2.2  I   2.2  I     0  I   2.2  I     0  I  17.8  I     0  I    1.2
                 I   4.1  I     0  I   1.6  I    .4  I    .4  I     0  I    .6  I     0  I   2.9  I     0  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               6 I     3  I     2  I     2  I     1  I     0  I     0  I     0  I     0  I     4  I     0  I     27
                 I  11.1  I   7.4  I   7.4  I   3.7  I     0  I     0  I     0  I     0  I  14.8  I     0  I     .7
                 I   3.1  I   1.6  I   3.1  I    .4  I     0  I     0  I     0  I     0  I   1.4  I     0  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN      97      124       64      233      242      112      158        1      279        9     3880
           TOTAL     2.5      3.2      1.6      6.0      6.2      2.9      4.1       .0      7.2       .2    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
  GPSIZE     SIZE OF GROUP                                                 BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  4 OF  4

                     SOCBEH
           COUNT   I
          ROW PCT  INOT INTE   ROW
          COL PCT  IRACTING   TOTAL
                   I    35  I
GPSIZE     --------I--------I
               2   I   154  I  1694
                   I   9.1  I  43.7
                   I  49.7  I
                  -I--------I
               3   I   111  I  1622
                   I   6.8  I  41.8
                   I  35.8  I
                  -I--------I
               4   I    41  I   492
                   I   8.3  I  12.7
                   I  13.2  I
                  -I--------I
               5   I     2  I    45
                   I   4.4  I   1.2
                   I    .6  I
                  -I--------I
               6   I     2  I    27
                   I    .4  I    .7
                   I    .6  I
                  -I--------I
           COLUMN      310     3880
            TOTAL      8.0    100.0

RAW CHI SQUARE =   247.28388 WITH   120 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .12623
CONTINGENCY COEFFICIENT =    .24477
LAMBDA (ASYMMETRIC) =   .08280 WITH GPSIZE   DEPENDENT.           =   .00285 WITH SOCBEH   DEPENDENT.
LAMBDA (SYMMETRIC) =   .03353
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .02911 WITH GPSIZE   DEPENDENT.           =   .01022 WITH SOCBEH   DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .01513

NUMBER OF MISSING OBSERVATIONS =    51
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244

TABLE 6

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* * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * * * *
   CONFSEX   SEX CONFIGURATION OF GROUP                          BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  2

                 SOCBEH
           COUNT I
         ROW PCT IASKING A OFFERING RECEIVIN REFUSING CALL ATT CALL ATT PAY ATTN PRAISING ASKING P SUBMIT T    ROW
         COL PCT ISSISTANC  ASSISTA G ASSIST  ASSISTA N OWN BE  OTHERS   OTHERS           ERMISSIO O DIRECT  TOTAL
                 I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
CONFSEX  --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               1 I      7 I     25 I      6 I      1 I     73 I     15 I    126 I      3 I      4 I     27 I   1349
  MALES ONLY     I     .5 I    1.9 I     .4 I     .1 I    5.4 I    1.1 I    9.3 I     .2 I     .3 I    2.0 I   34.7
                 I   31.8 I   20.7 I   21.4 I   25.0 I   36.3 I   50.0 I   33.6 I   60.0 I   26.7 I   30.0 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2 I      7 I     61 I     11 I      1 I     47 I      1 I     58 I      0 I      4 I     19 I    808
  FEMALES ONLY   I     .9 I    7.5 I    1.4 I     .1 I    5.8 I     .1 I    7.2 I      0 I     .5 I    2.4 I   20.8
                 I   31.8 I   50.4 I   39.3 I   25.0 I   23.4 I    3.3 I   15.5 I      0 I   26.7 I   21.1 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               3 I      8 I     35 I     11 I      2 I     81 I     14 I    191 I      2 I      7 I     44 I   1736
BOTH MALES & FEM I     .5 I    2.0 I     .6 I     .1 I    4.7 I     .8 I   11.0 I     .1 I     .4 I    2.5 I   44.6
                 I   36.4 I   28.9 I   39.3 I   50.0 I   40.3 I   46.7 I   50.9 I   40.0 I   46.7 I   48.9 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN       22      121       28        4      201       30      375        5       15       90     3893
           TOTAL       .6      3.1       .7       .1      5.2       .8      9.6       .1       .4      2.3    100.0


                 SOCBEH
           COUNT I
         ROW PCT IASKING Q TELL WHA ADMONISH TEACHING AGREEING SHARE,SH ASSERT O AGGRESSI TEASING  WITHDRAW    ROW
         COL PCT IUESTIONS T TO DO           ,MODELIN          OW,COOPE WNERSHIP ON                ING       TOTAL
                 I     11 I     12 I     13 I     14 I     15 I     16 I     17 I     18 I     19 I     20 I
CONFSEX  --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               1 I     38 I     75 I     12 I     64 I     10 I    102 I     24 I     26 I     33 I     74 I   1349
  MALES ONLY     I    2.8 I    5.6 I     .9 I    4.7 I     .7 I    7.6 I    1.8 I    1.9 I    2.4 I    5.5 I   34.7
                 I   31.7 I   33.5 I   31.6 I   25.6 I   20.0 I   32.4 I   42.1 I   57.8 I   37.1 I   42.3 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2 I     22 I     46 I     13 I     59 I      9 I     77 I      7 I      2 I      6 I     24 I    808
  FEMALES ONLY   I    2.7 I    5.7 I    1.6 I    7.3 I    1.1 I    9.5 I     .9 I     .2 I    1.0 I    3.0 I   20.8
                 I   18.3 I   20.5 I   34.2 I   23.6 I   18.0 I   24.4 I   12.3 I    4.4 I    9.0 I   13.7 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               3 I     60 I    103 I     13 I    127 I     31 I    136 I     26 I     17 I     48 I     77 I   1736
BOTH MALES & FEM I    3.5 I    5.9 I     .7 I    7.3 I    1.8 I    7.8 I    1.5 I    1.0 I    2.8 I    4.4 I   44.6
                 I   50.0 I   46.0 I   34.2 I   50.8 I   62.0 I   43.2 I   45.6 I   37.8 I   53.9 I   44.0 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN      120      224       38      250       50      315       57       45       89      175     3893
           TOTAL      3.1      5.8      1.0      6.4      1.3      8.1      1.5      1.2      2.3      4.5    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
   CONFSEX   SEX CONFIGURATION OF GROUP                        BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

                     SOCBEH
              COUNT  I
             ROW PCT IJOINING  ASSERTIN REFUSING IGNORING IMITATIN ROLE PLA EMOTIONA EMPATHY  TALK-NOT TALK-NO    ROW
             COL PCT IGROUP    G SELF                     G        YING     L EXPRES          UNDERST  ONE PART  TOTAL
                     I    21  I    22  I    23  I    24  I    25  I    26  I    27  I    28  I    29  I    30  I
CONFSEX      --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                   1 I    28  I    48  I    21  I    89  I   110  I    59  I    52  I     0  I    79  I     1  I   1349
  MALES ONLY         I   2.1  I   3.6  I   1.6  I   6.6  I   8.2  I   4.4  I   3.9  I     0  I   5.9  I    .1  I   34.7
                     I  28.9  I  38.7  I  32.8  I  37.7  I  45.1  I  53.2  I  32.5  I     0  I  28.2  I  11.1  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                   2 I    10  I    40  I    17  I    45  I    51  I     8  I    25  I     1  I    61  I     0  I    808
  FEMALES ONLY       I   1.2  I   5.0  I   2.1  I   5.6  I   6.3  I   1.0  I   3.1  I    .1  I   7.5  I     0  I   20.8
                     I  10.3  I  32.3  I  26.6  I  19.1  I  20.9  I   7.2  I  15.6  I 100.0  I  21.8  I     0  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                   3 I    59  I    36  I    26  I   102  I    83  I    44  I    83  I     0  I   140  I     8  I   1736
  BOTH MALES & FEM   I   3.4  I   2.1  I   1.5  I   5.9  I   4.8  I   2.5  I   4.8  I     0  I   8.1  I    .5  I   44.6
                     I  60.8  I  29.0  I  40.6  I  43.2  I  34.0  I  39.6  I  51.9  I     0  I  50.0  I  88.9  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              COLUMN      97      124       64      236      244      111      160        1      280        9     3893
               TOTAL     2.5      3.2      1.6      6.1      6.3      2.9      4.1       .0      7.2       .2    100.0


                     SOCBEH
              COUNT  I
             ROW PCT INOT INTE   ROW
             COL PCT IRACTING   TOTAL
                     I    35  I
CONFSEX      --------I--------I
                   1 I   117  I   1349
  MALES ONLY         I   8.7  I   34.7
                     I  37.4  I
                    -I--------I
                   2 I    74  I    808
  FEMALES ONLY       I   9.2  I   20.8
                     I  23.6  I
                    -I--------I
                   3 I   122  I   1736
  BOTH MALES & FEM   I   7.0  I   44.6
                     I  39.0  I
                    -I--------I
              COLUMN     313     3893
               TOTAL     8.0    100.0

RAW CHI SQUARE =   237.66078 WITH    60 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .17471
CONTINGENCY COEFFICIENT =    .23987
LAMBDA (ASYMMETRIC) =    .04265 WITH CONFSEX  DEPENDENT.          =    .00540 WITH SOCBEH   DEPENDENT.
LAMBDA (SYMMETRIC) =    .01956
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .02856 WITH CONFSEX  DEPENDENT.          =    .00985 WITH SOCBEH   DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .01465
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TABLE 7

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 * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
   SETTING
                                                                   BY  SOCBEH    SOCIAL BEHAVIOR
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  8

               SOCBEH
        COUNT  I
      ROW PCT IASKING A OFFERING RECEIVIN REFUSING CALL ATT CALL ATT PAY ATTN PRAISING ASKING P SUBMIT T   ROW
      COL PCT ISSISTANC  ASSISTA G ASSIST  ASSISTA N OWN BE  OTHERS   OTHERS           ERMISSIO O DIRECT  TOTAL
              I       1 I       2 I       3 I       4 I       5 I       6 I       7 I       8 I       9 I      10 I
SETTING       --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            1 I     6 I       4 I       0 I       0 I      34 I       6 I      65 I       0 I       5 I      12 I    635
  FRONT YARD  I    .9 I      .6 I       0 I       0 I     5.4 I      .9 I    10.2 I       0 I      .8 I     1.9 I   16.2
              I  27.3 I     3.3 I       0 I       0 I    16.9 I    18.8 I    17.3 I       0 I    33.3 I    13.3 I
             -I-------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            2 I     0 I       2 I       0 I       0 I       3 I       0 I       9 I       1 I       0 I       2 I    118
  SIDE YARD   I     0 I     1.7 I       0 I       0 I     2.5 I       0 I     7.6 I      .8 I       0 I     1.7 I    3.0
              I     0 I     1.6 I       0 I       0 I     1.5 I       0 I     2.4 I    20.0 I       0 I     2.2 I
             -I-------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            3 I     2 I       9 I       2 I       2 I      21 I       5 I      50 I       0 I       0 I       9 I    397
  BACK YARD   I    .5 I     2.3 I      .5 I      .5 I     5.3 I     1.3 I    12.6 I       0 I       0 I     2.3 I   10.1
              I   9.1 I     7.4 I     7.1 I    50.0 I    10.4 I    15.6 I    13.3 I       0 I       0 I    10.0 I
             -I-------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            4 I     3 I       2 I       0 I       0 I      11 I       3 I      30 I       1 I       1 I       2 I    277
  FRONT PORCH I   1.1 I      .7 I       0 I       0 I     4.0 I     1.1 I    10.8 I      .4 I      .4 I      .7 I    7.1
              I  13.6 I     1.6 I       0 I       0 I     5.5 I     9.4 I     8.0 I    20.0 I     6.7 I     2.2 I
             -I-------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            5 I     0 I       0 I       0 I       0 I       0 I       1 I       6 I       0 I       0 I       1 I     60
  BACK PORCH  I     0 I       0 I       0 I       0 I       0 I     1.7 I    10.0 I       0 I       0 I     1.7 I    1.5
              I     0 I       0 I       0 I       0 I       0 I     3.1 I     1.6 I       0 I       0 I     1.1 I
             -I-------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            6 I     1 I       3 I       0 I       0 I       4 I       4 I       6 I       0 I       0 I       5 I    113
  PRIVATE SIDEWALK I .9 I     2.7 I       0 I       0 I     3.5 I     3.5 I     5.3 I       0 I       0 I     4.4 I    2.9
              I   4.5 I     2.5 I       0 I       0 I     2.0 I    12.5 I     1.6 I       0 I       0 I     5.6 I
             -I-------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            7 I     0 I      20 I       5 I       0 I      68 I       7 I     100 I       2 I       8 I      28 I   1035
  PUBLIC SIDEWALK I 0 I     1.9 I      .5 I       0 I     6.6 I      .7 I     9.7 I      .2 I      .8 I     2.7 I   26.4
              I     0 I    16.4 I    17.9 I       0 I    33.8 I    21.9 I    26.6 I    40.0 I    53.3 I    31.1 I
             -I-------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            8 I     0 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I       1 I      4
  STREET      I     0 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I    25.0 I     .1
              I     0 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I     1.1 I
             -I-------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            9 I     0 I       1 I       0 I       0 I       0 I       0 I       1 I       0 I       0 I       2 I     16
  APRON       I     0 I     6.3 I       0 I       0 I       0 I       0 I     6.3 I       0 I       0 I    12.5 I     .4
              I     0 I      .8 I       0 I       0 I       0 I       0 I      .3 I       0 I       0 I     2.2 I
             -I-------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           11 I     3 I       7 I       4 I       0 I      16 I       5 I      39 I       0 I       0 I       8 I    331
  PUBLIC OPEN SPAC I .9 I     2.1 I     1.2 I       0 I     4.8 I     1.5 I    11.8 I       0 I       0 I     2.4 I    8.5
              I  13.6 I     5.7 I    14.3 I       0 I     8.0 I    15.6 I    10.4 I       0 I       0 I     8.9 I
             -I-------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
       COLUMN      22       122        28         4       201        32       376         5        15        90     3917
        TOTAL      .6       3.1        .7        .1       5.1        .8       9.6        .1        .4       2.3    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * * *
   SETTING                                                          BY  SOCBEM    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  8

                   SOCBEM
            COUNT  I
          ROW PCT  IASKING Q TELL WHA ADMONISH TEACHING AGREEING SHARE,SH ASSERT O AGGRESSI TEASING  WITHDRAW   ROW
          COL PCT  IUESTIONS T TO DO           ,MODELIN          OW,COOPE WNERSHIP ON                ING       TOTAL
                   I    11  I    12  I    13  I    14  I    15  I    16  I    17  I    18  I    19  I    20  I
SETTING   ---------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 1 I    17  I    32  I     6  I    46  I     7  I    61  I    18  I    14  I    28  I    20  I
  FRONT YARD       I   2.7  I   5.0  I    .9  I   7.2  I   1.1  I   9.6  I   2.8  I   2.2  I   4.4  I   3.1  I    635
                   I  14.2  I  14.2  I  15.8  I  18.2  I  13.7  I  19.2  I  31.0  I  31.1  I  30.8  I  11.1  I   16.2
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 2 I     8  I    11  I     0  I    13  I     2  I    10  I     3  I     2  I     2  I     7  I
  SIDE YARD        I   6.8  I   9.3  I     0  I  11.0  I   1.7  I   8.5  I   2.5  I   1.7  I   1.7  I   5.9  I    118
                   I   6.7  I   4.9  I     0  I   5.1  I   3.9  I   3.1  I   5.2  I   4.4  I   2.2  I   3.9  I    3.0
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 3 I    15  I    22  I     2  I    36  I     3  I    43  I     4  I     6  I     9  I    18  I
  BACK YARD        I   3.8  I   5.5  I    .5  I   9.1  I    .8  I  10.8  I   1.0  I   1.5  I   2.3  I   4.5  I    397
                   I  12.5  I   9.8  I   5.3  I  14.2  I   5.9  I  13.5  I   6.9  I  13.3  I   9.9  I  10.0  I   10.1
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 4 I    12  I    14  I     0  I    14  I     9  I    20  I     4  I     3  I     0  I    20  I
  FRONT PORCH      I   4.3  I   5.1  I     0  I   5.1  I   3.2  I   7.2  I   1.4  I   1.1  I     0  I   7.2  I    277
                   I  10.0  I   6.2  I     0  I   5.5  I  17.6  I   6.3  I   6.9  I   6.7  I     0  I  11.1  I    7.1
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 5 I     3  I     2  I     0  I     3  I     3  I    12  I     3  I     1  I     2  I     5  I
  BACK PORCH       I   5.0  I   3.3  I     0  I   5.0  I   5.0  I  20.0  I   5.0  I   1.7  I   3.3  I   8.3  I     60
                   I   2.5  I    .9  I     0  I   1.2  I   5.9  I   3.8  I   5.2  I   2.2  I   2.2  I   2.8  I    1.5
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 6 I     0  I     5  I     2  I     2  I     0  I     6  I     3  I     4  I     0  I    10  I
  PRIVATE SIDEWALK I     0  I   4.4  I   1.8  I   1.8  I     0  I   5.3  I   2.7  I   3.5  I     0  I   8.8  I    113
                   I     0  I   2.2  I   5.3  I    .8  I     0  I   1.9  I   5.2  I   8.9  I     0  I   5.6  I    2.9
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 7 I    31  I    68  I    12  I    66  I    17  I    60  I     9  I    13  I    20  I    62  I
  PUBLIC SIDEWALK  I   3.0  I   6.6  I   1.2  I   6.4  I   1.6  I   5.8  I    .9  I   1.3  I   1.9  I   6.0  I   1035
                   I  25.8  I  30.2  I  31.6  I  26.1  I  33.3  I  18.9  I  15.5  I  28.9  I  22.0  I  34.4  I   26.4
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 8 I     1  I     1  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I
  STREET           I  25.0  I  25.0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I      4
                   I    .8  I    .4  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     .1
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 9 I     1  I     0  I     0  I     2  I     0  I     0  I     0  I     0  I     0  I     1  I
  APRON            I   6.3  I     0  I     0  I  12.5  I     0  I     0  I     0  I     0  I     0  I   6.3  I     16
                   I    .8  I     0  I     0  I    .8  I     0  I     0  I     0  I     0  I     0  I    .6  I     .4
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                11 I     9  I    29  I     1  I    26  I     4  I    34  I     0  I     1  I    12  I     9  I
  PUBLIC OPEN SPAC I   2.7  I   8.8  I    .3  I   7.9  I   1.2  I  10.3  I     0  I    .3  I   3.6  I   2.7  I    331
                   I   7.5  I  12.9  I   2.6  I  10.3  I   7.8  I  10.7  I     0  I   2.2  I  13.2  I   5.0  I    8.5
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN      120      225       38      253       51      318       58       45       91      180      3917
            TOTAL      3.1      5.7      1.0      6.5      1.3      8.1      1.5      1.1      2.3      4.6     100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   SETTING                                                      BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  3 OF  8

                SOCBEH
        COUNT  I
      ROW PCT  IJOINING  ASSERTIN REFUSING IGNORING IMITATIN ROLE PLA EMOTIONA EMPATHY  TALK-NOT TALK-NO   ROW
      COL PCT  IGROUP    G SELF                     G        YING     L EXPRES          UNDERST  ONE PART  TOTAL
               I     21  I     22  I     23  I     24  I     25  I     26  I     27  I     28  I     29  I     30  I
SETTING        --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     1  I     20  I     20  I      8  I     47  I     31  I      4  I     27  I      0  I     50  I      0  I    635
  FRONT YARD            I    3.1  I    3.1  I    1.3  I    7.4  I    4.9  I     .6  I    4.3  I      0  I    7.9  I      0  I   16.2
                        I   20.2  I   16.1  I   12.5  I   19.9  I   12.7  I    3.6  I   16.9  I      0  I   17.9  I      0  I
                       -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     2  I      2  I      1  I      3  I      8  I     11  I      0  I      1  I      0  I      3  I      0  I    118
  SIDE YARD             I    1.7  I     .8  I    2.5  I    6.8  I    9.3  I      0  I     .8  I      0  I    2.5  I      0  I    3.0
                        I    2.0  I     .8  I    4.7  I    3.4  I    4.5  I      0  I     .6  I      0  I    1.1  I      0  I
                       -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     3  I      7  I     14  I      6  I     19  I     16  I      6  I     26  I      0  I     23  I      3  I    397
  BACK YARD             I    1.8  I    3.5  I    1.5  I    4.8  I    4.0  I    1.5  I    6.5  I      0  I    5.8  I     .8  I   10.1
                        I    7.1  I   11.3  I    9.4  I    8.1  I    6.6  I    5.4  I   16.2  I      0  I    8.2  I   33.3  I
                       -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     4  I      4  I      8  I      4  I     17  I     18  I     27  I      8  I      0  I     28  I      1  I    277
  FRONT PORCH           I    1.4  I    2.9  I    1.4  I    6.1  I    6.5  I    9.7  I    2.9  I      0  I   10.1  I     .4  I    7.1
                        I    4.0  I    6.5  I    6.3  I    7.2  I    7.4  I   24.1  I    5.0  I      0  I   10.0  I   11.1  I
                       -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     5  I      2  I      0  I      0  I      2  I      1  I      6  I      1  I      0  I      1  I      0  I     60
  BACK PORCH            I    3.3  I      0  I      0  I    3.3  I    1.7  I   10.0  I    1.7  I      0  I    1.7  I      0  I    1.5
                        I    2.0  I      0  I      0  I     .8  I     .4  I    5.4  I     .6  I      0  I     .4  I      0  I
                       -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     6  I      5  I      4  I      1  I     10  I     10  I      1  I      0  I      0  I      8  I      1  I    113
  PRIVATE SIDEWALK      I    4.4  I    3.5  I     .9  I    8.8  I    8.8  I     .9  I      0  I      0  I    7.1  I     .9  I    2.9
                        I    5.1  I    3.2  I    1.6  I    4.2  I    4.1  I     .9  I      0  I      0  I    2.9  I   11.1  I
                       -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     7  I     34  I     46  I     17  I     68  I     73  I     26  I     24  I      0  I     66  I      2  I   1035
  PUBLIC SIDEWALK       I    3.3  I    4.4  I    1.6  I    6.6  I    7.1  I    2.5  I    2.3  I      0  I    6.4  I     .2  I   26.4
                        I   34.3  I   37.1  I   26.6  I   28.8  I   29.9  I   23.2  I   15.0  I      0  I   23.6  I   22.2  I
                       -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     8  I      0  I      1  I      0  I      0  I      0  I      0  I      0  I      0  I      0  I      0  I      4
  STREET                I      0  I   25.0  I      0  I      0  I      0  I      0  I      0  I      0  I      0  I      0  I     .1
                        I      0  I     .8  I      0  I      0  I      0  I      0  I      0  I      0  I      0  I      0  I
                       -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                     9  I      0  I      0  I      1  I      0  I      2  I      0  I      3  I      0  I      2  I      0  I     16
  APRON                 I      0  I      0  I    6.3  I      0  I   12.5  I      0  I   18.8  I      0  I   12.5  I      0  I     .4
                        I      0  I      0  I    1.6  I      0  I     .8  I      0  I    1.9  I      0  I     .7  I      0  I
                       -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                    11  I      8  I      6  I      7  I     16  I     16  I     26  I      3  I      0  I     16  I      1  I    331
  PUBLIC OPEN SPAC      I    2.4  I    1.8  I    2.1  I    4.8  I    4.8  I    7.9  I     .9  I      0  I    4.8  I     .3  I    8.5
                        I    8.1  I    4.8  I   10.9  I    6.8  I    6.5  I   23.2  I    1.9  I      0  I    5.7  I   11.1  I
                       -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               COLUMN         99       124        64       236       244       112       160         1       280  [illegible]    3917
                TOTAL        2.5       3.2       1.6       6.0       6.2       2.9       4.1        .0       7.1        .2     100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * *
   SETTING                                                        BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  4 OF  8

                      SOCBEH
            COUNT   I
          ROW PCT  INOT INTE   ROW
          COL PCT  IRACTING   TOTAL
                   I    35   I
SETTING   ---------I---------I
                1  I    47   I   635
  FRONT YARD       I    7.4  I  16.2
                   I   15.0  I
                  -I---------I
                2  I    14   I   118
  SIDE YARD        I   11.9  I   3.0
                   I    4.5  I
                  -I---------I
                3  I    19   I   397
  BACK YARD        I    4.8  I  10.1
                   I    6.1  I
                  -I---------I
                4  I    13   I   277
  FRONT PORCH      I    4.7  I   7.1
                   I    4.1  I
                  -I---------I
                5  I     5   I    60
  BACK PORCH       I    8.3  I   1.5
                   I    1.6  I
                  -I---------I
                6  I    18   I   113
  PRIVATE SIDEWALK I   15.9  I   2.9
                   I    5.7  I
                  -I---------I
                7  I    83   I  1035
  PUBLIC SIDEWALK  I    8.0  I  26.4
                   I   26.4  I
                  -I---------I
                8  I     0   I     4
  STREET           I     0   I    .1
                   I     0   I
                  -I---------I
                9  I     0   I    16
  APRON            I     0   I    .4
                   I     0   I
                  -I---------I
               11  I    25   I   331
  PUBLIC OPEN SPAC I    7.6  I   8.5
                   I    8.0  I
                  -I---------I
           COLUMN       314     3917
            TOTAL       3.0    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * *
   SETTING                                           BY  SOCBEH     SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  5 OF  8

                SOCBEH
         COUNT  I
       ROW PCT  IASKING A OFFERING RECEIVIN REFUSING CALL ATT CALL ATT PAY ATTN PRAISING ASKING P SUBMIT T   ROW
       COL PCT  ISSISTANC  ASSISTA G ASSIST  ASSISTA N OWN BE  OTHERS   OTHERS           ERMISSIO O DIRECT  TOTAL
                I       1 I       2 I       3 I       4 I       5 I       6 I       7 I       8 I       9 I      10 I
SETTING   --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              12  I       7 I      74 I      17 I       2 I      44 I       1 I      70 I       1 I       1 I      20 I    930
  PLAYGROUND      I      .8 I     8.0 I     1.8 I      .2 I     4.7 I      .1 I     7.5 I      .1 I      .1 I     2.2 I   23.7
                  I    31.8 I    60.7 I    60.7 I    50.0 I    21.9 I     3.1 I    18.6 I    20.0 I     6.7 I    22.2 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              14  I       0 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I      1
  OTHER           I       0 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I     .0
                  I       0 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN          22       122        28         4       201        32       376         5        15        90     3917
           TOTAL          .6       3.1        .7        .1       5.1        .8       9.6        .1        .4       2.3    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * * *
   SETTING                                                           BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  6 OF  8

                  SOCBEH
          COUNT  I
        ROW PCT  IASKING Q TELL WHA ADMONISH TEACHING AGREEING SHARE,SH ASSERT O AGGRESSI TEASING  WITHDRAW   ROW
        COL PCT  IUESTIONS T TO DO           ,MODELIN          OW,COOPE WNERSHIP ON                ING       TOTAL
                 I     11  I     12  I     13  I     14  I     15  I     16  I     17  I     18  I     19  I     20  I
SETTING  --------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
             12  I     23  I     41  I     14  I     45  I      6  I     72  I     14  I      1  I     18  I     28  I    930
  PLAYGROUND     I    2.5  I    4.4  I    1.5  I    4.8  I     .6  I    7.7  I    1.5  I     .1  I    1.9  I    3.0  I   23.7
                 I   19.2  I   18.2  I   36.8  I   17.8  I   11.8  I   22.6  I   24.1  I    2.2  I   19.8  I   15.6  I
                -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
             14  I      0  I      0  I      1  I      0  I      0  I      0  I      0  I      0  I      0  I      0  I      1
  OTHER          I      0  I      0  I  100.0  I      0  I      0  I      0  I      0  I      0  I      0  I      0  I     .0
                 I      0  I      0  I    2.6  I      0  I      0  I      0  I      0  I      0  I      0  I      0  I
                -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
         COLUMN       120       225        38       253        51       318        58        45        91       180     3917
          TOTAL       3.1       5.7       1.0       6.5       1.3       8.1       1.5       1.1       2.3       4.6    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
   SETTING                                                  BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  7 OF  8

               SOCBEH
        COUNT  I
      ROW PCT  IJOINING  ASSERTIN REFUSING IGNORING IMITATIN ROLE PLA EMOTIONA EMPATHY  TALK-NOT TALK-NO    ROW
      COL PCT  IGROUP    G SELF                     G        YING     L EXPRES          UNDERST  ONE PART  TOTAL
               I     21  I    22  I     23  I    24  I     25  I    26  I     27  I    28  I    29  I     30  I
SETTING  ------I---------I--------I---------I--------I---------I--------I---------I--------I---------I---------I
           12  I     17  I    24  I     17  I    49  I     66  I    16  I     67  I     1  I    83  I      1  I    930
  PLAYGROUND   I    1.8  I   2.6  I    1.8  I   5.3  I    7.1  I   1.7  I    7.2  I    .1  I   8.9  I     .1  I   23.7
               I   17.2  I  19.4  I   26.6  I  20.8  I   27.0  I  14.3  I   41.9  I 100.0  I  29.6  I   11.1  I
              -I---------I--------I---------I--------I---------I--------I---------I--------I---------I---------I
           14  I      0  I     0  I      0  I     0  I      0  I     0  I      0  I     0  I     0  I      0  I      1
  OTHER        I      0  I     0  I      0  I     0  I      0  I     0  I      0  I     0  I     0  I      0  I     .0
               I      0  I     0  I      0  I     0  I      0  I     0  I      0  I     0  I     0  I      0  I
              -I---------I--------I---------I--------I---------I--------I---------I--------I---------I---------I
       COLUMN        99      124        64      236       244      112       160         1      280         9     3917
        TOTAL       2.5      3.2       1.6      6.0       6.2      2.9       4.1        .0      7.1        .2    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
    SETTING                                                       BY  SOCBEH    SOCIAL BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  8 OF  8

                  SOCBEH
         COUNT   I
         ROW PCT INOT INTE   ROW
         COL PCT IRACTING   TOTAL
                 I    35  I
SETTING  --------I--------I
              12 I    90  I   930
  PLAYGROUND     I   9.7  I  23.7
                 I  28.7  I
                -I--------I
              14 I     0  I     1
  OTHER          I     0  I    .0
                 I     0  I
                -I--------I
         COLUMN      314     3917
          TOTAL      8.0    100.0

RAW CHI SQUARE =   840.42689 WITH   330 DEGREES OF FREEDOM.  SIGNIFICANCE =       0
CRAMER'S V =   .13966
CONTINGENCY COEFFICIENT =   .42030
LAMBDA (ASYMMETRIC) =   .06142 WITH SETTING  DEPENDENT.          =   .01327 WITH SOCBEH   DEPENDENT.
LAMBDA (SYMMETRIC) =   .03487
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .04926 WITH SETTING  DEPENDENT.          =   .03091 WITH SOCBEH   DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .03798

NUMBER OF MISSING OBSERVATIONS =    14
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RURAL SETTING

written by:
Frank F. Carrasco

RURAL SETTING

Site Description

The rural site is located in the southern part of Colorado, adjacent to the New Mexico border. Historically, this site was part of a land grant awarded by the governor of New Mexico while this land area was still under Mexican rule. Settlers in this small community had been enticed by the land grantee into traveling north and establishing a small settlement as a condition of the land grant. Like other New Mexican settlers, they arrived in this area on the early 1800's and established a settlement named after the one they had left in New Mexico.

Evidence of the rural site's ties to New Mexico and its particular cultural heritage are intermixed in the physical environment.

The rural site is only a few miles from the county seat nestled in the foothills of a mountain range. The town is divided by a large free-flowing mountain stream whose banks are connected by several bridges for automobile use, and one bridge exclusively for pedestrians. Along the banks of the stream large cottonwood groves have been allowed to flourish to provide shade for animals sustained by the grazing areas.

The man-made environment consists of relatively new wood-frame houses and mobile homes interspersed among well kept adobe homes, abandoned adobe buildings, and deteriorating structures. Some of the older adobe homes are built in a characteristic "U" shape, creating a semi-enclosed front entry courtyard. Other family dwelling areas consist of small homes clustered together in evidence of extended families living close together in a family land trust. Some of the older homes have distinguishable additions that presumably were attached to existing structure as families grew and more living space was needed.

Surrounding the homes are several distinguishing environmental features. Most homes have a wood pile within their close vicinity. The wood piles are used for heating during the winter and replenished from the nearly mountains during the summer and fall months. A "despensa" or an underground cellar can sometimes be seen in which residents store food supplies and other materials. Round domed ovens (hornos de adobe) are scattered throughout the rural site reminiscent of times when families cooked outside. Small outhouses can also be seen around some of the family homes, close to the livestock pens.

In this community there is a small Catholic church where mass is conducted by a priest who travels to the rural site for religious observances. There is a small "morada" in the rural site. (A "morada" is an unadorned windowless or darkened building used by the "penitentes" for religious rites.)

There are two public establishments in the town. One is the post office which serves a population of 500, and the other is a small combination grocery-liquor store. Since the rural site is only about five miles from the county seat, it is assumed that most of the marketing is done there.

Due to the small population of the rural site little, if any, demographic information was available. Therefore, we will present information on the county in which the rural site is located, based on information from the Community Resource Development Project, Colorado State University. The population of this county is declining. In 1960, the population was 4,219 and in 1972, the population was reported as 3,153. There is no settlement in the county with over 2,500 residents. The county seat has a population of only 797 people.

The major source of income in the county is agriculture. It is estimated that the growing season in the county's open valley terrain is a mere ninety-four days. The county sits at an elevation of 7,962 feet above sea level and has an annual mean temperature of 42.2 degrees Fahrenheit.

Economically, the residents of this county are poor. In December of 1972, the State Department of Social Services reported that 52.0% of the population in the county was receiving some type of welfare assistance. Of an estimated 188 families counted as rural farm population, 103 families are estimated as earning less than $4,999 per year. The median educational achievement of county residents is 11.3 school years. At least half of the residents have had one year of high school.

Behavioral Observations

Descriptive information on the rural site is based on 1,085 individual child observations conducted during the fall, summer, and spring seasons. Winter data collection was attempted, but due to the extreme cold temperatures, few children were observed outdoors, and this effort was cancelled. As with the other sites, data was collected in the early and late afternoons. The early time period yielded 53.8% of the observations, and the late time period yielded 46.2%. Time and season appeared to have little bearing on the observations.

Males were observed 50.7% of the time, and females 49.3%. Of all the children observed, 93.8% were Chicano, .9% were non-Chicano, and the remaining number were of mixed parentage. Over half of the observations recorded (57.5%) were children whose perceived age was between three and nine years inclusive. A majority of all the children observed (78.3%) were engaged in outdoor activities with no adult supervision.

Almost one-third of the children in the rural site were recorded in groups of two, and 18.2% were recorded alone. Of these one child observations, 69.5% were ages ten through twelve years. Roughly, four-fifths of the children were observed outdoors interacting with at least one other individual.

According to group configurations, rural site children congregate with same age children 27.9% of the time, mixed age children groups occurred 31.8%, and adults were recorded with children 21.9% of the time. Unisex grups were not as popular as mixed sex groups. Male only groups were observed 31.6%, female only groups 28.6%, and mixed sex groups 39.9%. Mixed sex groups were most popular in the late afternoon observations with 43.3% recorded. Also, it appeared that as group size increased there was a greater propensity for mixed sex groupings.

Supervision of children occurred in a little under one-third of the observations. When children were supervised, 13.6% was by direct adult supervision, 8.5% indirect adult supervision, and 9.3% child supervision. Adult supervision was conducted almost equally by females and males (8.7% and 8.0% respectively). All of the male supervision was done by Chicanos. Adults of both sexes supervising children were recorded for 5.0% of the observations. Direct adult supervision decreased as group size increased. Indirect adult supervision was predominant when groups included three to five children. Child supervision was predominant in groups of two children. Children ages six through nine were the most supervised age group.

The most popular setting according to our observations was the street (24.0%), followed by the side yard (18.5%) and the front yard (13.2%). Although 25.9% of all children observed were engaged in activities with no observable prop, 20.6% were active with large muscle toys. Fixed/semi-fixed props were also popular with 14.7%, followed closely by 13.2% of the children manipulating animate props. Since the most popular setting is the street and most observed prop the large muscle toys, it is not surprising that the most observed activity was moving through space (30.0%). Socializing occurred 20.2% of the time, while children working were observed 15.5%.

Child sex appeared to have a significant association with setting which the child occupied. Males accounted for 56.4% of the street usage compared to 43.6% for females. In a reverse trend, females were recorded in the front yards 58.2%, while males were only observed 41.8%. Similarly with side yards, females were recorded 61.5% and males 38.5%. In the apron area males were observed 56.3%, and females 43.7%. These four settings accounted for 71.6% of usage for all observations recorded. (Refer to Table 1 at the end of this section.)

The most popular prop for males was large muscle toys, while fixed/semi-fixed items were popular with girls. This prop usage accounts for the above two categories being the most popular props overall. Generally, it appears that inanimate materials, adult tools, and symbolic toys play a more important role in the male child's outdoor environment. In the girl's environment animate materials, play equipment, incidental materials, educational materials, clothing, and food seem to have a more important role. The props used by the different sex groups, therefore, appear to group themselves in a distinct pattern. Refer to Table 2.

The most engaged in activity for both boys and girls was "moving through space" which was observed 30.1%, with males comprising 55.9% and females 44.1%. The next most popular activities, equally popular with boys and girls, were socializing (20.3%) and work (15.3%). Proportionally, boys were slightly more active in moving through space and working, while girls were significantly more active in socializing. Refer to Table 3.

Sex configurations of groups also tended to influence the area where children played. Exclusively female groups were most often observed in side yard areas (24.5%). Almost half (49.6%) of the male groups, on the other hand, were most frequently observed in the street or the apron. Mixed sex groups were equally observed in either the street or the side yard area. No particular setting is used exclusively by one sex or the other. Refer to Table 4.

When using props, all female groups (similar to all male groups) preferred large muscle toys the most. Fixed/semi-fixed props were enjoyed more by all female groups and mixed sex groups. A similar trend is seen in the animate material category where females prefer this particular prop, and this preference is also manifested in mixed sex groups. Refer to Table 5.

Behavior, according to exclusive sex groupings after considering moving through space as most popular, shows some interesting difference. Socializing, while most popular with both all female and mixed sex groups, is not as popular with the male. Similarily, work is most popular with all female groups as it is with males only or mixed female and male groups. Significantly very little formal information gathering/expression were observed in any of the groupings. Refer to Table 6.

Younger children (ages three through five) tended to play in the side yard, while older children (ages ten through twelve) were observed in the street, and middle aged children (ages six through nine) were active almost equally in the street or the apron. (Refer to Table 7.) Two-thirds of the younger children used fixed/semi-fixed props or animate materials. Middle aged children were most interested in large muscle toys, while older children were engaged with large muscle toys or fixed/semi-fixed materials. (Refer to Table 8.) Behaviorally, young children tended to socialize 37.9% of the time, while almost one-third of the middle aged children were moving through space. The older children were also observed moving through space 31.7% of the time, followed closely by doing work (22.5%). Refer to Table 9.

When children were observed alone, they were in streets (34.0%) or side yards (19.3%). Usually, they were engaged with large muscle toys (22.6%) or fixed/semi-fixed props (11.3%). Almost half of these children were moving through space (49.5%), with working children comprising 22.2%.

The presence of adults greatly influenced the children and their activities. Over half of the observations in front and side yards included at least one adult and over one-fourth of the observations in the street also included adults. A little less than one-third of the observations of children with animate materials were with adults, and an additional 46.7% of the children involved with fixed/semi-fixed props were with adults. Moving through space and socializing were popular activities when adults were present. Also, almost one-third of the children observed working were in conjunction with at least one adult.

Adult males supervised children primarily in the streets, side yards, and aprons. Female adults supervised children primarily in side yards, streets, and aprons. Mixed sex adult groups supervised children in front or side yards. (Refer to Table 10.) When only adult males supervised children, children were involved in working or moving through space, while female only supervision occurred in socializing activities and moving through space. Mixed adult groups usually supervised children socializing. Refer to Table 11.

Most supervision was rendered when children were actively engaged with animate materials or fixed/semi-fixed props. Children using animate materials were more supervised by direct adult as well as child supervision, while activities with fixed/semi-fixed props were most indirectly supervised by adults. Refer to Table 12.

In examining behavior categories according to supervision, there appears to be distinct areas where adult intervention is accepted and activities that are child-centered. Large amounts of no supervision were recorded with activities such as games, symbolic play, manipulating materials, large muscle activities, and moving through space. In contrast, socializing and working activities were almost equally as apt to be adult supervised as not. Significantly, a high proportion of child supervision occurred during socializing activities. Refer to Table 13.

Same age children tended to move through space 33.8% of the time, and socialize 21.5% of the time. This done usually with large muscle toys as props (33.6%) and in the street (28.6%) or the apron area (16.2%). Mixed age children, on the other hand, preferred the apron (23.4%) and the side yard or street equally (16.7%). They showed a preference for large muscle toys also (37.3%) and animate materials (20.4%), spending a significant amount of time socializing (27.8%) and moving through space (18.4%).

With the street being the most popular setting, and large muscle toys the most used prop, it is not surprising that toys account for 37.7% of the prop use in the street, and animate materials 27.6%. In the next most used setting, the side yard, fixed/semi-fixed materials occupy children's activity 30.8% of the time, followed by animate materials (21.1%). Refer to Table 14.

In the street, 61.2% of the children coded were moving through space. In the side yards, almost one-third of the activities

(30.0%) were recorded as work, while the next most utilized setting, the apron, was used for socializing 32.8% of the time. Refer to Table 15.

Almost one-fourth of the recorded activity was moving through space (24.1%). Of this, almost half (49.2%) of the children were using large muscle toys. A little over one-fifth of activities children engaged in with props was work, with one-fourth working with adult tools and 21.8% using incidental materials. Socializing also played a significant part of the rural site children's activity. When using props in socializing, children used animate materials and fixed/semi-fixed equipment 72.1% of the time. Refer to Table 16.

TABLE 1

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* * * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * * *
   CHSEX     CHILD SEX                                                 BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                    SETTING
              COUNT  I
            ROW PCT  IFRONT YA SIDE YAR BACK YAR FRONT PO BACK POR PRIVATE  PUBLIC S STREET   APRON    ALLEY       ROW
            COL PCT  IRD      D        D        RCH      CH       SIDEWALK IDEWALK                               TOTAL
                     I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
CHSEX       ---------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                   1 I    59  I    77  I    62  I    24  I     1  I     6  I    19  I   145  I   103  I     0  I   546
  MALE               I  10.8  I  14.1  I  11.4  I   4.4  I    .2  I   1.1  I   3.5  I  26.6  I  18.9  I     0  I  50.7
                     I  41.8  I  38.5  I  62.6  I  30.4  I  50.0  I  42.9  I  67.9  I  56.4  I  56.3  I     0  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                   2 I    82  I   123  I    37  I    55  I     1  I     8  I     9  I   112  I    80  I     3  I   531
  FEMALE             I  15.4  I  23.2  I   7.0  I  10.4  I    .2  I   1.5  I   1.7  I  21.1  I  15.1  I    .6  I  49.3
                     I  58.2  I  61.5  I  37.4  I  69.6  I  50.0  I  57.1  I  32.1  I  43.6  I  43.7  I 100.0  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             COLUMN     141      200       99       79        2       14       28      257      183        3      1077
              TOTAL    13.1     18.6      9.2      7.3       .2      1.3      2.6     23.9     17.0       .3     100.0


                    SETTING
              COUNT  I
            ROW PCT  IPUBLIC O PLAY GRO ACROSS S   ROW
            COL PCT  IPEN SPAC UND      ETTINGS   TOTAL
                     I     11 I     12 I     13 I
CHSEX       ---------I--------I--------I--------I
                   1 I    45  I     4  I     1  I   546
  MALE               I   8.2  I    .7  I    .2  I   50.7
                     I  71.4  I  57.1  I 100.0  I
                    -I--------I--------I--------I
                   2 I    18  I     3  I     0  I   531
  FEMALE             I   3.4  I    .6  I     0  I   49.3
                     I  28.6  I  42.9  I     0  I
                    -I--------I--------I--------I
             COLUMN      63        7        1      1077
              TOTAL     5.8       .6       .1     100.0

RAW CHI SQUARE =    59.31155 WITH    12 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .23467
CONTINGENCY COEFFICIENT =    .22847
LAMBDA (ASYMMETRIC) =   .19774 WITH CHSEX    DEPENDENT.           =   .01341 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =   .08586
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .04143 WITH CHSEX    DEPENDENT.           =   .01423 WITH SETTING  DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .02118

NUMBER OF MISSING OBSERVATIONS =     8
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* * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
   CHSEX     CHILD SEX                                                  BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                   PROP
            COUNT  I
          ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC LARGE MU CLOTHING   ROW
          COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS        TOYS   SCLE TOY            TOTAL
                   I      1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I    10  I    11  I
CHSEX      --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 1 I    62  I    47  I    67  I     8  I    26  I     4  I    45  I    11  I   144  I     3  I   422
  MALE             I  14.7  I  11.1  I  15.9  I   1.9  I   6.2  I    .9  I  10.7  I   2.6  I  34.1  I    .7  I  52.8
                   I  39.5  I  64.4  I  47.5  I  36.4  I  47.3  I  40.0  I  67.2  I  55.0  I  64.3  I  17.6  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 2 I    95  I    26  I    74  I    14  I    29  I     6  I    22  I     9  I    80  I    14  I   377
  FEMALE           I  25.2  I   6.9  I  19.6  I   3.7  I   7.7  I   1.6  I   5.8  I   2.4  I  21.2  I   3.7  I  47.2
                   I  60.5  I  35.6  I  52.5  I  63.6  I  52.7  I  60.0  I  32.8  I  45.0  I  35.7  I  82.4  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN      157       73      141       22       55       10       67       20      224       17      799
            TOTAL     19.6      9.1     17.6      2.8      6.9      1.3      8.4      2.5     28.0      2.1    100.0


                   PROP
            COUNT  I
          ROW PCT  IFOOD        ROW
          COL PCT  I            TOTAL
                   I     12  I
CHSEX      --------I--------I
                 1 I      5  I    422
  MALE             I    1.2  I    52.8
                   I   38.5  I
                  -I--------I
                 2 I      8  I    377
  FEMALE           I    2.1  I    47.2
                   I   61.5  I
                  -I--------I
           COLUMN        13       799
            TOTAL       1.6     100.0

RAW CHI SQUARE =    47.33183 WITH    10 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .24339
CONTINGENCY COEFFICIENT =    .23649
LAMBDA (ASYMMETRIC) =    .17241 WITH CHSEX    DEPENDENT.           =   .02609 WITH PROP     DEPENDENT.
LAMBDA (SYMMETRIC) =    .08403
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .04377 WITH CHSEX    DEPENDENT.           =   .01523 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .02259

NUMBER OF MISSING OBSERVATIONS =    286
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TABLE 2

TABLE 3

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* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
    CHSEX     CHILD SEX                                                 BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *   PAGE  1 OF  1

                    BEHAVIOR
            COUNT  I
           ROW PCT IFORMAL I SOCIALIZ GAMES    WORK     SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING      ROW
           COL PCT INF GAT-E ING                         PLAY    TING     SCLE ACT OUGH SPA G                 TOTAL
                   I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
CHSEX      --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                1  I      4 I     82 I     62 I     89 I     11 I     11 I     52 I    180 I     43 I      3 I   538
  MALE             I     .7 I   15.2 I   11.5 I   16.5 I    2.0 I    2.0 I    9.7 I   33.5 I    8.0 I     .6 I  50.3
                   I   57.1 I   37.8 I   62.0 I   54.3 I   45.8 I   36.7 I   59.1 I   55.9 I   41.0 I   37.5 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                2  I      3 I    135 I     38 I     75 I     13 I     19 I     36 I    142 I     62 I      5 I   532
  FEMALE           I     .6 I   25.4 I    7.1 I   14.1 I    2.4 I    3.6 I    6.8 I   26.7 I   11.7 I     .9 I  49.7
                   I   42.9 I   62.2 I   38.0 I   45.7 I   54.2 I   63.3 I   40.9 I   44.1 I   59.0 I   62.5 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN         7      217      100      164       24       30       88      322      105        8    1070
            TOTAL        .7     20.3      9.3     15.3      2.2      2.8      8.2     30.1      9.8       .7   100.0


                    BEHAVIOR
            COUNT  I
           ROW PCT IEMOTIONA   ROW
           COL PCT IL EXPRES  TOTAL
                   I     11 I
CHSEX      --------I--------I
                1  I      1 I   538
  MALE             I     .2 I  50.3
                   I   20.0 I
                  -I--------I
                2  I      4 I   532
  FEMALE           I     .8 I  49.7
                   I   80.0 I
                  -I--------I
           COLUMN         5    1070
            TOTAL        .5   100.0

RAW CHI SQUARE =     35.44181 WITH    10 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0001
CRAMER'S V =    .18200
CONTINGENCY COEFFICIENT =    .17906
LAMBDA (ASYMMETRIC) =    .16353 WITH CHSEX    DEPENDENT.           =        0 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =    .06797
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .02416 WITH CHSEX    DEPENDENT.           =   .00878 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .01288

NUMBER OF MISSING OBSERVATIONS =    15
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TABLE 4

```
* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   CONFSEX   SOCIAL CONFIGURATION,SEX                              BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                    SETTING
              COUNT  I
            ROW PCT  IFRONT YA SIDE YAR BACK YAR FRONT PO BACK POR PRIVATE  PUBLIC S STREET   APRON    ALLEY       ROW
            COL PCT  IRD      D        D        RCH      CH       SIDEWALK IDEWALK                              TOTAL
                     I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
CONFSEX     ---------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                   1 I    33  I    42  I    23  I    14  I     1  I     3  I    17  I   106  I    61  I     0  I   337
  MALES ONLY         I   9.8  I  12.5  I   6.8  I   4.2  I    .3  I    .9  I   5.0  I  31.5  I  18.1  I     0  I  31.5
                     I  23.7  I  21.0  I  23.2  I  17.7  I  50.0  I  23.1  I  60.7  I  41.2  I  33.9  I     0  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                   2 I    44  I    75  I    13  I    45  I     0  I     3  I     6  I    67  I    42  I     2  I   306
  FEMALES ONLY       I  14.4  I  24.5  I   4.2  I  14.7  I     0  I   1.0  I   2.0  I  21.9  I  13.7  I    .7  I  28.6
                     I  31.7  I  37.5  I  13.1  I  57.0  I     0  I  23.1  I  21.4  I  26.1  I  23.3  I  66.7  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                   3 I    62  I    83  I    63  I    20  I     1  I     7  I     5  I    84  I    77  I     1  I   428
  BOTH MALES AND F   I  14.5  I  19.4  I  14.7  I   4.7  I    .2  I   1.6  I   1.2  I  19.6  I  18.0  I    .2  I  40.0
                     I  44.6  I  41.5  I  63.6  I  25.3  I  50.0  I  53.8  I  17.9  I  32.7  I  42.8  I  33.3  I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             COLUMN      139      200       99       79        2       13       28      257      180        3      1071
              TOTAL     13.0     18.7      9.2      7.4       .2      1.2      2.6     24.0     16.8       .3     100.0


                    SETTING
              COUNT  I
            ROW PCT  IPUBLIC O PLAY GRD ACROSS S   ROW
            COL PCT  IPEN SPAC UND       ETTINGS   TOTAL
                     I    11  I    12  I    13  I
CONFSEX     ---------I--------I--------I--------I
                   1 I    37  I     0  I     0  I   337
  MALES ONLY         I  11.0  I     0  I     0  I  31.5
                     I  58.7  I     0  I     0  I
                    -I--------I--------I--------I
                   2 I     9  I     0  I     0  I   306
  FEMALES ONLY       I   2.9  I     0  I     0  I  28.6
                     I  14.3  I     0  I     0  I
                    -I--------I--------I--------I
                   3 I    17  I     7  I     1  I   428
  BOTH MALES AND F   I   4.0  I   1.6  I    .2  I  40.0
                     I  27.0  I 100.0  I 100.0  I
                    -I--------I--------I--------I
             COLUMN       63        7        1     1071
              TOTAL      5.9       .7       .1    100.0

RAW CHI SQUARE =   136.24678 WITH    24 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =   .25220
CONTINGENCY COEFFICIENT =   .33594
LAMBDA (ASYMMETRIC) =   .12442 WITH CONFSEX  DEPENDENT.          =   .00983 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =   .06040
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .05770 WITH CONFSEX  DEPENDENT.          =   .03115 WITH SETTING  DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .04045
```

TABLE 5

```
* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   CONFSEX   SOCIAL CONFIGURATION,SEX                                BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                PROP
        COUNT  I
        ROW PCT IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC LARGE MU CLOTHING   ROW
        COL PCT IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS      TOYS     SCLE TOY           TOTAL
                I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I     10 I     11 I
CONFSEX   --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               1 I     34 I     35 I     31 I      2 I     18 I      4 I     36 I      3 I     88 I      3 I    259
  MALES ONLY       I   13.1 I   13.5 I   12.0 I     .8 I    6.9 I    1.5 I   13.9 I    1.2 I   34.0 I    1.2 I   32.5
                   I   21.7 I   47.9 I   22.3 I    9.1 I   32.7 I   40.0 I   53.7 I   15.0 I   39.5 I   17.6 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2 I     39 I     10 I     35 I      7 I     13 I      6 I     19 I      3 I     44 I     13 I    193
  FEMALES ONLY     I   20.2 I    5.2 I   18.1 I    3.6 I    6.7 I    3.1 I    9.8 I    1.6 I   22.8 I    6.7 I   24.2
                   I   24.8 I   13.7 I   25.2 I   31.8 I   23.6 I   60.0 I   28.4 I   15.0 I   19.7 I   76.5 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               3 I     84 I     28 I     73 I     13 I     24 I      0 I     12 I     14 I     91 I      1 I    344
  BOTH MALES AND F I   24.4 I    8.1 I   21.2 I    3.8 I    7.0 I      0 I    3.5 I    4.1 I   26.5 I     .3 I   43.2
                   I   53.5 I   38.4 I   52.5 I   59.1 I   43.6 I      0 I   17.9 I   70.0 I   40.8 I    5.9 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN        157       73      139       22       55       10       67       20      223       17      796
           TOTAL       19.7      9.2     17.5      2.8      6.9      1.3      8.4      2.5     28.0      2.1    100.0


                PROP
        COUNT  I
        ROW PCT IFOOD       ROW
        COL PCT I           TOTAL
                I     12 I
CONFSEX   --------I--------I
               1 I      5 I    259
  MALES ONLY       I    1.9 I   32.5
                   I   38.5 I
                  -I--------I
               2 I      4 I    193
  FEMALES ONLY     I    2.1 I   24.2
                   I   30.8 I
                  -I--------I
               3 I      4 I    344
  BOTH MALES AND F I    1.2 I   43.2
                   I   30.8 I
                  -I--------I
          COLUMN         13      796
           TOTAL        1.6    100.0

RAW CHI SQUARE =    98.87956 WITH    20 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =   .24922
CONTINGENCY COEFFICIENT =    .33241
LAMBDA (ASYMMETRIC) =    .11062 WITH CONFSEX  DEPENDENT.          =         0 WITH PROP     DEPENDENT.
LAMBDA (SYMMETRIC) =    .04878
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .05952 WITH CONFSEX  DEPENDENT.          =   .03206 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .04167
```

401

402

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* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   CONFSEX   SOCIAL CONFIRMATION,SEX                            BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                BEHAVIOR
         COUNT  I
        ROW PCT IFORMAL I SOCIALIZ GAMES    WORK     SYMBULIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING      ROW
        COL PCT INF GAT-E ING                          PLAY    TING     SCLE ACT OUGH SPA G                   TOTAL
                I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
CONFSEX  --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              1  I     2  I    34  I    20  I    67  I     2  I     5  I    34  I   133  I    28  I     3  I    329
  MALES ONLY     I    .6  I  10.3  !   6.1  I  20.4  I    .6  I   1.5  I  10.3  I  40.4  I   8.5  I    .9  I   30.9
                 I  28.6  I  15.7  I  20.0  I  41.4  I   8.3  I  16.7  I  38.6  I  41.7  I  26.9  I  37.5  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              2  I     1  I    76  I    18  I    44  I     7  I     9  I    18  I    93  I    37  I     2  I    307
  FEMALES ONLY   I    .3  I  24.8  I   5.9  I  14.3  I   2.3  I   2.9  I   5.9  I  30.3  I  12.1  I    .7  I   28.9
                 I  14.3  I  35.0  I  18.0  I  27.2  I  29.2  I  30.0  I  20.5  I  29.2  I  35.6  I  25.0  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              3  I     4  I   107  I    62  I    51  I    15  I    16  I    36  I    93  I    39  I     3  I    428
  BOTH MALES AND F I  .9  I  25.0  I  14.5  I  11.9  I   3.5  I   3.7  I   8.4  I  21.7  I   9.1  I    .7  I   40.2
                 I  57.1  I  49.3  I  62.0  I  31.5  I  62.5  I  53.3  I  40.9  I  29.2  I  37.5  I  37.5  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
         COLUMN        7      217      100      162       24       30       88      319      104        8     1064
          TOTAL       .7     20.4      9.4     15.2      2.3      2.8      8.3     30.0      9.8       .8    100.0


                BEHAVIOR
         COUNT  I
        ROW PCT IEMOTIONA   ROW
        COL PCT IL EXPRES   TOTAL
                I    11  I
CONFSEX  --------I--------I
              1  I     1  I   329
  MALES ONLY     I    .3  I  30.9
                 I  20.0  I
                -I--------I
              2  I     2  I   307
  FEMALES ONLY   I    .7  I  28.9
                 I  40.0  I
                -I--------I
              3  I     2  I   428
  BOTH MALES AND F I  .5  I  40.2
                 I  40.0  I
                -I--------I
         COLUMN        5     1064
          TOTAL       .5    100.0

RAW CHI SQUARE =    92.01996 WITH    20 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =   .20795
CONTINGENCY COEFFICIENT =    .28214
LAMBDA (ASYMMETRIC) =   .08805 WITH CONFSEX  DEPENDENT.           =   .01879 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =    .05069
UNCERTAINTY COEFFICIEXT (ASYMMETRIC) =   .04139 WITH CONFSEX  DEPENDENT.           =   .02359 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .03005
```

TABLE 6

TABLE 7

```
* * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
   AGECAT                                                            BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                   SETTING
            COUNT  I
          ROW PCT  IFRONT YA SIDE YAR BACK YAR FRONT PO BACK POR PRIVATE  PUBLIC S STREET   APRON    ALLEY      ROW
          COL PCT  IRD       D        D        RCH      CH       SIDEWALK IDEWALK                              TOTAL
                   I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
AGECAT    ---------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 1 I    37  I    40  I     6  I     4  I     1  I     4  I     1  I    17  I    18  I     0  I    131
  3 TO 5 YEARS     I  28.2  I  30.5  I   4.6  I   3.1  I    .8  I   3.1  I    .8  I  13.0  I  13.7  I     0  I   12.1
                   I  25.9  I  20.0  I   6.1  I   5.1  I  50.0  I  28.6  I   3.6  I   6.5  I   9.8  I     0  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 2 I    68  I    88  I    53  I    24  I     1  I     6  I    10  I   104  I   111  I     1  I    493
  6 TO 9 YEARS     I  13.8  I  17.8  I  10.8  I   4.9  I    .2  I   1.2  I   2.0  I  21.1  I  22.5  I    .2  I   45.6
                   I  4,.6  I  44.0  I  53.5  I  30.4  I  50.0  I  42.9  I  35.7  I  40.0  I  60.7  I  33.3  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 3 I    38  I    72  I    40  I    51  I     0  I     4  I    17  I   139  I    54  I     2  I    458
  10 TO 12 YEARS   I   8.3  I  15.7  I   8.7  I  11.1  I     0  I    .9  I   3.7  I  30.3  I  11.8  I    .4  I   42.3
                   I  26.6  I  36.0  I  40.4  I  64.6  I     0  I  28.6  I  60.7  I  53.5  I  29.5  I  66.7  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN      143      200       99       79        2       14       28      260      183        3     1082
            TOTAL     13.2     18.5      9.1      7.3       .2      1.3      2.6     24.0     16.9       .3    100.0


                   SETTING
            COUNT  I
          ROW PCT  IPUBLIC O PLAY GRD ACROSS S   ROW
          COL PCT  IPEN SPAC UND      ETTINGS    TOTAL
                   I    11  I    12  I    13  I
AGECAT    ---------I--------I--------I--------I
                 1 I     3  I     0  I     0  I    131
  3 TO 5 YEARS     I   2.3  I     0  I     0  I   12.1
                   I   4.8  I     0  I     0  I
                  -I--------I--------I--------I
                 2 I    24  I     2  I     1  I    493
  6 TO 9 YEARS     I   4.9  I    .4  I    .2  I   45.6
                   I  38.1  I  28.6  I 100.0  I
                  -I--------I--------I--------I
                 3 I    36  I     5  I     0  I    458
  10 TO 12 YEARS   I   /.9  I   1.1  I     0  I   42.3
                   I  5,.1  I  71.4  I     0  I
                  -I--------I--------I--------I
           COLUMN       63        7        1     1082
            TOTAL      5.8       .6       .1    100.0

RAW CHI SQUARE =   120.31168 WITH    24 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =   .23579
CONTINGENCY COEFFICIENT =   .31633
LAMBDA (ASYMMETRIC) =   .14431 WITH AGECAT   DEPENDENT.          =   .03650 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =   .08150
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .05551 WITH AGECAT   DEPENDENT.          =   .02692 WITH SETTING  DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .03626
```

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* * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
   AGECAT                                                    BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  1 OF  1

                    PROP
            COUNT  I
          ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC LARGE MU CLOTHING   ROW
          COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS       TOYS    SCLE TOY            TOTAL
                   I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I    10  I    11  I
AGECAT    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                1  I    29  I     6  I    45  I     5  I     4  I     1  I     8  I     1  I     9  I     1  I    110
  3 TO 5 YEARS     I  26.4  I   5.5  I  40.9  I   4.5  I   3.6  I    .9  I   7.3  I    .9  I   8.2  I    .9  I   13.7
                   I  18.2  I   8.2  I  31.5  I  22.7  I   7.3  I  10.0  I  11.9  I   5.0  I   4.0  I   5.6  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                2  I    68  I    37  I    48  I    10  I    21  I     6  I    19  I    15  I   136  I     6  I    373
  6 TO 9 YEARS     I  18.2  I   9.9  I  12.9  I   2.7  I   5.6  I   1.6  I   5.1  I   4.0  I  36.5  I   1.6  I   46.4
                   I  42.8  I  50.7  I  33.6  I  45.5  I  38.2  I  60.0  I  28.4  I  75.0  I  60.7  I  33.3  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                3  I    62  I    30  I    50  I     7  I    30  I     3  I    40  I     4  I    79  I    11  I    321
  10 TO 12 YEARS   I  19.3  I   9.3  I  15.6  I   2.2  I   9.3  I    .9  I  12.5  I   1.2  I  24.6  I   3.4  I   39.9
                   I  39.0  I  41.1  I  35.0  I  31.8  I  54.5  I  30.0  I  59.7  I  20.0  I  35.3  I  61.1  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN       159       73      143       22       55       10       67       20      224       18      804
            TOTAL      19.8      9.1     17.8      2.7      6.8      1.2      8.3      2.5     27.9      2.2    100.0


                    PROP
            COUNT  I
          ROW PCT  IFOOD        ROW
          COL PCT  I            TOTAL
                   I    12  I
AGECAT    --------I--------I
                1  I     1  I    110
  3 TO 5 YEARS     I    .9  I   13.7
                   I   7.7  I
                  -I--------I
                2  I     7  I    373
  6 TO 9 YEARS     I   1.9  I   46.4
                   I  53.8  I
                  -I--------I
                3  I     5  I    321
  10 TO 12 YEARS   I   1.6  I   39.9
                   I  38.5  I
                  -I--------I
           COLUMN        13      804
            TOTAL       1.6    100.0

RAW CHI SQUARE =   100.14224 WITH    20 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =    .24955
CONTINGENCY COEFFICIENT =    .33281
LAMBDA (ASYMMETRIC) =   .08585 WITH AGECAT   DEPENDENT.           =   .06207 WITH PROP     DEPENDENT.
LAMBDA (SYMMETRIC) =    .07221
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .06065 WITH AGECAT   DEPENDENT.           =   .03035 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .04045
```

TABLE 8

TABLE 9

```
* * * * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * *
   AGECAT                                                       BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                    BEHAVIOR
             COUNT I
           ROW PCT IFORMAL I SOCIALIZ GAMES    WORK     SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING      ROW
           COL PCT INF GAT-E ING                          PLAY     TING   SCLE ACT OUGH SPA G                    TOTAL
                   I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I
AGECAT     --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 1 I      0 I     52 I      6 I     15 I      2 I      6 I     13 I     16 I     17 I      1 I    131
  3 TO 5 YEARS     I      0 I   39.7 I    4.6 I   11.5 I    1.5 I    4.6 I    9.9 I   12.2 I   13.0 I     .8 I   12.2
                   I      0 I   24.0 I    6.0 I    9.0 I    8.3 I   20.0 I   14.6 I    5.0 I   16.0 I   12.5 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 2 I      3 I     87 I     65 I     50 I     17 I     17 I     46 I    162 I     39 I      3 I    490
  6 TO 9 YEARS     I     .6 I   17.8 I   13.3 I   10.2 I    3.5 I    3.5 I    9.4 I   33.1 I    8.0 I     .6 I   45.6
                   I   42.9 I   40.1 I   65.0 I   29.9 I   70.8 I   56.7 I   51.7 I   50.3 I   36.8 I   37.5 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 3 I      4 I     78 I     29 I    102 I      5 I      7 I     30 I    144 I     50 I      4 I    454
 10 TO 12 YEARS    I     .9 I   17.2 I    6.4 I   22.5 I    1.1 I    1.5 I    6.6 I   31.7 I   11.0 I     .9 I   42.2
                   I   57.1 I   35.9 I   29.0 I   61.1 I   20.8 I   23.3 I   33.7 I   44.7 I   47.2 I   50.0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
       COLUMN             7      217      100      167       24       30       89      322      106        8     1075
        TOTAL            .7     20.2      9.3     15.5      2.2      2.8      8.3     30.0      9.9       .7    100.0


                    BEHAVIOR
             COUNT I
           ROW PCT IEMOTIONA   ROW
           COL PCT IL EXPRES   TOTAL
                   I     11 I
AGECAT     --------I--------I
                 1 I      3 I    131
  3 TO 5 YEARS     I    2.3 I   12.2
                   I   60.0 I
                  -I--------I
                 2 I      1 I    490
  6 TO 9 YEARS     I     .2 I   45.6
                   I   20.0 I
                  -I--------I
                 3 I      1 I    454
 10 TO 12 YEARS    I     .2 I   42.2
                   I   20.0 I
                  -I--------I
       COLUMN             5     1075
        TOTAL            .5    100.0

RAW CHI SQUARE =    113.58507 WITH    20 DEGREES OF FREEDOM.  SIGNIFICANCE =    .0000
CRAMER'S V =    .22985
CONTINGENCY COEFFICIENT =    .30913
LAMBDA (ASYMMETRIC) =    .11453 WITH AGECAT   DEPENDENT.            =   .04781 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =    .07698
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .05185 WITH AGECAT   DEPENDENT.            =   .02660 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .03516
```

TABLE 10

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* * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   ADSEX     ADULT SEX                                            BY  SETTING
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  1

                    SETTING
            COUNT  I
          ROW PCT  IFRONT YA SIDE YAR BACK YAR FRONT PO BACK POR PRIVATE  PUBLIC S STREET   APRON    ALLEY      ROW
          COL PCT  IRD       D        D        RCH      CH       SIDEWALK IDEWALK                            TOTAL
                   I       1 I       2 I       3 I       4 I       5 I       6 I       7 I       8 I       9 I      10 I
ADSEX      --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 1 I      10 I      15 I       1 I       6 I       1 I       1 I       5 I      28 I      13 I       1 I     86
  MALES ONLY       I    11.6 I    17.4 I     1.2 I     7.0 I     1.2 I     1.2 I     5.8 I    32.6 I    15.1 I     1.2 I   36.9
                   I    30.3 I    22.7 I    10.0 I    37.5 I   100.0 I    33.3 I    62.5 I    56.0 I    39.4 I   100.0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 2 I      13 I      30 I       6 I       6 I       0 I       0 I       1 I      16 I      14 I       0 I     93
  FEMALES ONLY     I    14.0 I    32.3 I     6.5 I     6.5 I       0 I       0 I     1.1 I    17.2 I    15.1 I       0 I   39.9
                   I    39.4 I    45.5 I    60.0 I    37.5 I       0 I       0 I    12.5 I    32.0 I    42.4 I       0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 3 I      10 I      21 I       3 I       4 I       0 I       2 I       2 I       6 I       6 I       0 I     54
  MALES AND FEMALE I    18.5 I    38.9 I     5.6 I     7.4 I       0 I     3.7 I     3.7 I    11.1 I    11.1 I       0 I   23.2
                   I    30.3 I    31.8 I    30.0 I    25.0 I       0 I    66.7 I    25.0 I    12.0 I    18.2 I       0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN         33        66        10        16         1         3         8        50        33         1      233
            TOTAL       14.2      28.3       4.3       6.9        .4       1.3       3.4      21.5      14.2        .4    100.0


                    SETTING
            COUNT  I
          ROW PCT  IPUBLIC O ACROSS S   ROW
          COL PCT  IPEN SPAC ETTINGS    TOTAL
                   I      11 I      13 I
ADSEX      --------I--------I--------I
                 1 I       5 I       0 I     86
  MALES ONLY       I     5.8 I       0 I   36.9
                   I    45.5 I       0 I
                  -I--------I--------I
                 2 I       6 I       1 I     93
  FEMALES ONLY     I     6.5 I     1.1 I   39.9
                   I    54.5 I   100.0 I
                  -I--------I--------I
                 3 I       0 I       0 I     54
  MALES AND FEMALE I       0 I       0 I   23.2
                   I       0 I       0 I
                  -I--------I--------I
           COLUMN         11         1      233
            TOTAL        4.7        .4    100.0

RAW CHI SQUARE =     34.32121 WITH    22 DEGREES OF FREEDOM.  SIGNIFICANCE =    .0456
CRAMER'S V =    .27139
CONTINGENCY COEFFICIENT =    .35831
LAMBDA (ASYMMETRIC) =   .14286 WITH ADSEX    DEPENDENT.            =   .07784 WITH SETTING  DEPENDENT.
LAMBDA (SYMMETRIC) =   .10749
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .07858 WITH ADSEX    DEPENDENT.           =   .04333 WITH SETTING  DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .05586
```

TABLE 11

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* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * *
   ADSEX     ADULT SEX                                        BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  1 OF  1

                  BEHAVIOR
          COUNT  I
        ROW PCT  IFORMAL I SOCIALIZ GAMES     WORK      MANIPULA LARGE MU MOVE THR OBSERVIN EATING    EMOTIONA  ROW
        COL PCT  INF GAT-E ING                          TING     SCLE ACT OUGH SPA G                  L EXPRES  TOTAL
                 I     1  I     2  I     3  I     4  I     6  I     7  I     8  I     9  I    10  I    11  I
ADSEX   ---------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              1  I     1  I     9  I     0  I    29  I     1  I     9  I    28  I     9  I     0  I     0  I    86
  MALES ONLY     I   1.2  I  10.5  I     0  I  33.7  I   1.2  I  10.5  I  32.6  I  10.5  I     0  I     0  I  36.9
                 I  20.0  I  16.4  I     0  I  56.9  I  33.3  I  64.3  I  47.5  I  33.3  I     0  I     0  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              2  I     4  I    29  I    12  I    15  I     0  I     1  I    22  I     9  I     1  I     0  I    93
  FEMALES ONLY   I   4.3  I  31.2  I  12.9  I  16.1  I     0  I   1.1  I  23.7  I   9.7  I   1.1  I     0  I  39.9
                 I  80.0  I  52.7  I  80.0  I  29.4  I     0  I   7.1  I  37.3  I  33.3  I  50.0  I     0  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              3  I     0  I    17  I     3  I     7  I     2  I     4  I     9  I     9  I     1  I     2  I    54
  MALES AND FEMALE I   0  I  31.5  I   5.6  I  13.0  I   3.7  I   7.4  I  16.7  I  16.7  I   1.9  I   3.7  I  23.2
                 I     0  I  30.9  I  20.0  I  13.7  I  66.7  I  28.6  I  15.3  I  33.3  I  50.0  I 100.0  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
         COLUMN        5       55       15       51        3       14       59       27        2        2     233
          TOTAL      2.1     23.6      6.4     21.9      1.3      6.0     25.3     11.6       .9       .9   100.0

RAW CHI SQUARE =    57.59487 WITH    18 DEGREES OF FREEDOM.  SIGNIFICANCE =    .0000
CRAMER'S V =    .35156
CONTINGENCY COEFFICIENT =    .44519
LAMBDA (ASYMMETRIC) =    .22857 WITH ADSEX    DEPENDENT.           =    .09195 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =    .15287
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .13016 WITH ADSEX    DEPENDENT.           =    .07607 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .09602
```

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* * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * *
   SUPER     SUPERVISION OF CHILD OR GROUP                    BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  1 OF  2

                    PROP
           COUNT  I
         ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC LARGE MU CLOTHING   ROW
         COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS       TOYS     SCLE TOY            TOTAL
                  I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I    10  I    11  I
SUPER    ---------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               0  I    72  I    54  I    62  I    22  I    35  I     9  I    45  I    18  I   184  I    17  I    529
  NO SUPERVISION  I  13.6  I  10.2  I  11.7  I   4.2  I   6.6  I   1.7  I   8.5  I   3.4  I  34.8  I   3.2  I   66.5
                  I  46.5  I  74.0  I  43.7  I 100.0  I  63.6  I 100.0  I  68.2  I  90.0  I  82.1  I 100.0  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               1  I    33  I    13  I    41  I     0  I     5  I     0  I    12  I     1  I    23  I     0  I    129
  DIRECT AD SUPV  I  25.6  I  10.1  I  31.8  I     0  I   3.9  I     0  I   9.3  I    .8  I  17.8  I     0  I   16.2
                  I  21.3  I  17.8  I  28.9  I     0  I   9.1  I     0  I  18.2  I   5.0  I  10.3  I     0  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2  I    40  I     2  I     3  I     0  I     8  I     0  I     6  I     1  I     3  I     0  I     64
 INDIRECT AD SUPV I  62.5  I   3.1  I   4.7  I     0  I  12.5  I     0  I   9.4  I   1.6  I   4.7  I     0  I    8.0
                  I  25.8  I   2.7  I   2.1  I     0  I  14.5  I     0  I   9.1  I   5.0  I   1.3  I     0  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               3  I    10  I     4  I    36  I     0  I     7  I     0  I     3  I     0  I    14  I     0  I     74
 CHILD SUPERVISIO I  13.5  I   5.4  I  48.6  I     0  I   9.5  I     0  I   4.1  I     0  I  18.9  I     0  I    9.3
                  I   6.5  I   5.5  I  25.4  I     0  I  12.7  I     0  I   4.5  I     0  I   6.3  I     0  I
                 -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN      155       73      142       22       55        9       66       20      224       17      796
           TOTAL     19.5      9.2     17.8      2.8      6.9      1.1      8.3      2.5     28.1      2.1    100.0
(CONTINUED)
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TABLE 12

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* * * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * *
   SUPER     SUPERVISION OF CHILD OR GROUP                    BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

                      PROP
              COUNT  I
              ROW PCT IFOOD        ROW
              COL PCT I            TOTAL
                      I    12  I
SUPER         --------I--------I
                   0  I    11  I    529
  NO SUPERVISION      I   2.1  I   66.5
                      I  84.6  I
                     -I--------I
                   1  I     1  I    129
  DIRECT AD SUPV      I    .8  I   16.2
                      I   7.7  I
                     -I--------I
                   2  I     1  I     64
  INDIRECT AD SUPV    I   1.6  I    8.0
                      I   7.7  I
                     -I--------I
                   3  I     0  I     74
  CHILD SUPERVISIO    I     0  I    9.3
                      I     0  I
                     -I--------I
            COLUMN         13       796
             TOTAL        1.6     100.0

RAW CHI SQUARE =   216.32039 WITH    30 DEGREES OF FREEDOM.  SIGNIFICANCE =    .0000
CRAMER'S V =    .30098
CONTINGENCY COEFFICIENT =    .46226
LAMBDA (ASYMMETRIC) =         0 WITH SUPER    DEPENDENT.          =   .13462 WITH PROP     DEPENDENT.
LAMBDA (SYMMETRIC) =    .09178
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =    .13350 WITH SUPER    DEPENDENT.          =   .06658 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =    .08885

NUMBER OF MISSING OBSERVATIONS =    289
```

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 * * * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * *
   SUPER    SUPERVISION OF CHILD OR GROUP                      BY  BEHAVIOR
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE  1 OF  2

                   BEHAVIOR
            COUNT  I
          ROW PCT  IFORMAL I SOCIALIZ GAMES    WORK     SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING        ROW
          COL PCT  INF GAT-E ING                          PLAY    TING     SCLE ACT OUGH SPA G                     TOTAL
                   I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I     9  I    10  I
SUPER      --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                0  I     2  I   116  I    77  I    93  I    23  I    27  I    67  I   243  I    71  I     6  I   728
  NO SUPERVISION   I    .3  I  15.9  I  10.6  I  12.8  I   3.2  I   3.7  I   9.2  I  33.4  I   9.8  I    .8  I  68.2
                   I  28.6  I  54.2  I  77.0  I  56.0  I  95.8  I  90.0  I  76.1  I  75.9  I  67.6  I  75.0  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                1  I     5  I    41  I    12  I    38  I     0  I     3  I     2  I    29  I    14  I     1  I   147
  DIRECT AD SUPV   I   3.4  I  27.9  I   8.2  I  25.9  I     0  I   2.0  I   1.4  I  19.7  I   9.5  I    .7  I  13.8
                   I  71.4  I  19.2  I  12.0  I  22.9  I     0  I  10.0  I   2.3  I   9.1  I  13.3  I  12.5  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                2  I     0  I    14  I     3  I    15  I     0  I     0  I    12  I    33  I    14  I     1  I    92
  INDIRECT AD SUPV I     0  I  15.2  I   3.3  I  16.3  I     0  I     0  I  13.0  I  35.9  I  15.2  I   1.1  I   8.6
                   I     0  I   6.5  I   3.0  I   9.0  I     0  I     0  I  13.6  I  10.3  I  13.3  I  12.5  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                3  I     0  I    43  I     8  I    20  I     1  I     0  I     7  I    15  I     6  I     0  I   100
  CHILD SUPERVISIO I     0  I  43.0  I   8.0  I  20.0  I   1.0  I     0  I   7.0  I  15.0  I   6.0  I     0  I   9.4
                   I     0  I  20.1  I   8.0  I  12.0  I   4.2  I     0  I   8.0  I   4.7  I   5.7  I     0  I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
           COLUMN        7      214      100      166       24       30       88      320      105        8     1067
            TOTAL       .7     20.1      9.4     15.6      2.2      2.8      8.2     30.0      9.8       .7    100.0
(CONTINUED)
```

TABLE 13

```
* * * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * * *
   SUPER     SUPERVISION OF CHILD OR GROUP                        BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

                       BEHAVIOR
               COUNT  I
             ROW PCT  IEMOTIONA   ROW
             COL PCT  IL EXPRES   TOTAL
                      I    11  I
SUPER         --------I--------I
                   0  I     3  I    728
  NO SUPERVISION      I    .4  I   68.2
                      I  60.0  I
                     -I--------I
                   1  I     2  I    147
  DIRECT AD SUPV      I   1.4  I   13.8
                      I  40.0  I
                     -I--------I
                   2  I     0  I     92
  INDIRECT AD SUPV    I     0  I    8.6
                      I     0  I
                     -I--------I
                   3  I     0  I    100
  CHILD SUPERVISIO    I     0  I    9.4
                      I     0  I
                     -I--------I
              COLUMN        5      1067
               TOTAL       .5     100.0

RAW CHI SQUARE =   131.58872 WITH    30 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =   .20275
CONTINGENCY COEFFICIENT =   .33134
LAMBDA (ASYMMETRIC) =   .00885 WITH SUPER    DEPENDENT.          =   .05355 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =   .03959
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .06569 WITH SUPER    DEPENDENT.          =   .03327 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .04417

NUMBER OF MISSING OBSERVATIONS =    18
```

TABLE 14

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* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * *
   SETTING                                                 BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  1 OF  2

           PROP
             COUNT I
           ROW PCT IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC LARGE MU CLOTHING FOOD        ROW
           COL PCT IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS      TOYS     SCLE TOY                   TOTAL
                   I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I     10 I     11 I     12 I
SETTING    --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 1 I      9 I     16 I     16 I      5 I      8 I      2 I      8 I      8 I     37 I      4 I      1 I    114
  FRONT YARD       I    7.9 I   14.0 I   14.0 I    4.4 I    7.0 I    1.8 I    7.0 I    7.0 I   32.5 I    3.5 I     .9 I   14.2
                   I    5.7 I   21.9 I   11.3 I   22.7 I   14.5 I   20.0 I   11.9 I   40.0 I   16.5 I   22.2 I    7.7 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 2 I     40 I     20 I     36 I     14 I     11 I      1 I     22 I      2 I     19 I      4 I      2 I    171
  SIDE YARD        I   23.4 I   11.7 I   21.1 I    8.2 I    6.4 I     .6 I   12.9 I    1.2 I   11.1 I    2.3 I    1.2 I   21.3
                   I   25.2 I   27.4 I   25.5 I   63.6 I   20.0 I   10.0 I   32.8 I   10.0 I    8.5 I   22.2 I   15.4 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 3 I     24 I      5 I      3 I      2 I      6 I      0 I     10 I      2 I     22 I      3 I      1 I     78
  BACK YARD        I   30.8 I    6.4 I    3.8 I    2.6 I    7.7 I      0 I   12.8 I    2.6 I   28.2 I    3.8 I    1.3 I    9.7
                   I   15.1 I    6.8 I    2.1 I    9.1 I   10.9 I      0 I   14.9 I   10.0 I    9.8 I   16.7 I    7.7 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 4 I     10 I      0 I      3 I      0 I      5 I      1 I      1 I      0 I      2 I      0 I      0 I     22
  FRONT PORCH      I   45.5 I      0 I   13.6 I      0 I   22.7 I    4.5 I    4.5 I      0 I    9.1 I      0 I      0 I    2.7
                   I    6.3 I      0 I    2.1 I      0 I    9.1 I   10.0 I    1.5 I      0 I     .9 I      0 I      0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 5 I      1 I      0 I      0 I      0 I      0 I      0 I      1 I      0 I      0 I      0 I      0 I      2
  BACK PORCH       I   50.0 I      0 I      0 I      0 I      0 I      0 I   50.0 I      0 I      0 I      0 I      0 I     .2
                   I     .6 I      0 I      0 I      0 I      0 I      0 I    1.5 I      0 I      0 I      0 I      0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 6 I      3 I      0 I      0 I      0 I      0 I      0 I      0 I      1 I      1 I      0 I      0 I      5
  PRIVATE SIDEWALK I   60.0 I      0 I      0 I      0 I      0 I      0 I      0 I   20.0 I   20.0 I      0 I      0 I     .6
                   I    1.9 I      0 I      0 I      0 I      0 I      0 I      0 I    5.0 I     .4 I      0 I      0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 7 I      6 I      3 I      0 I      0 I      2 I      2 I      1 I      0 I      0 I      0 I      0 I     14
  PUBLIC SIDEWALK  I   42.9 I   21.4 I      0 I      0 I   14.3 I   14.3 I    7.1 I      0 I      0 I      0 I      0 I    1.7
                   I    3.8 I    4.1 I      0 I      0 I    3.6 I   20.0 I    1.5 I      0 I      0 I      0 I      0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 8 I     39 I     11 I     55 I      0 I      7 I      3 I      1 I      2 I     75 I      2 I      4 I    199
  STREET           I   19.6 I    5.5 I   27.6 I      0 I    3.5 I    1.5 I     .5 I    1.0 I   37.7 I    1.0 I    2.0 I   24.8
                   I   24.5 I   15.1 I   39.0 I      0 I   12.7 I   30.0 I    1.5 I   10.0 I   33.5 I   11.1 I   30.8 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                 9 I     20 I     10 I     22 I      1 I      9 I      1 I      9 I      1 I     54 I      5 I      1 I    133
  APRON            I   15.0 I    7.5 I   16.5 I     .8 I    6.8 I     .8 I    6.8 I     .8 I   40.6 I    3.8 I     .8 I   16.6
                   I   12.6 I   13.7 I   15.6 I    4.5 I   16.4 I   10.0 I   13.4 I    5.0 I   24.1 I   27.8 I    7.7 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                10 I      0 I      0 I      1 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      1
  ALLEY            I      0 I      0 I  100.0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I     .1
                   I      0 I      0 I     .7 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I
                  -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             COLUMN      159       73      141       22       55       10       67       20      224       18       13      802
              TOTAL     19.8      9.1     17.6      2.7      6.9      1.2      8.4      2.5     27.9      2.2      1.6    100.0
(CONTINUED)
```

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* * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * *
   SETTING                                                                 BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE 2  OF  2

                  PROP
          COUNT  I
        ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC LARGE MU CLOTHING FOOD       ROW
        COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS       TOYS    SCLE TOY                    TOTAL
                 I     1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I    10  I    11  I    12  I
SETTING          --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             11  I     3  I     8  I     5  I     0  I     7  I     0  I    14  I     4  I    10  I     0  I     4  I    55
  PUBLIC OPEN SPAC I   5.5  I  14.5  I   9.1  I     0  I  12.7  I     0  I  25.5  I   7.3  I  18.2  I     0  I   7.3  I   6.9
                 I   1.9  I  11.0  I   3.5  I     0  I  12.7  I     0  I  20.9  I  20.0  I   4.5  I     0  I  30.8  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             12  I     3  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     4  I     0  I     0  I     7
  PLAY GROUND    I  42.9  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I  57.1  I     0  I     0  I    .9
                 I   1.9  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I   1.8  I     0  I     0  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             13  I     1  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     1
  ACROSS SETTINGS I 100.0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I    .1
                 I    .6  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
         COLUMN      159        73       141        22        55        10        67        20       224        18        13       802
          TOTAL     19.8       9.1      17.6       2.7       6.9       1.2       8.4       2.5      27.9       2.2       1.6     100.0
(CONTINUED)




RAW CHI SQUARE =   299.16182 WITH   120 DEGREES OF FREEDOM.  SIGNIFICANCE =   .0000
CRAMER'S V =   .19314
CONTINGENCY COEFFICIENT =   .52123
LAMBDA (ASYMMETRIC) =   .09619 WITH SETTING  DEPENDENT.          =   .07955 WITH PROP     DEPENDENT.
LAMBDA (SYMMETRIC) =   .08806
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .09592 WITH SETTING  DEPENDENT.          =   .09330 WITH PROP     DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .09459

NUMBER OF MISSING OBSERVATIONS =   283
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TABLE 15

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* * * * * * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * * * * *
    SETTING                                                              BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *   PAGE  1 OF   2

                     BEHAVIOR
              COUNT I
            ROW PCT IFORMAL I SOCIALIZ GAMES    WORK     SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING   EMOTIONA   ROW
            COL PCT INF GAT-E ING                        PLAY     TING     SCLE ACT OUGH SPA G                 L EXPRES  TOTAL
                    I       1 I       2 I       3 I       4 I       5 I       6 I       7 I       8 I       9 I      10 I      11 I
SETTING     --------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                  1 I       0 I      13 I      39 I      27 I      11 I       9 I       8 I      21 I      13 I       1 I       1 I     143
  FRONT YARD        I       0 I     9.1 I    27.3 I    18.9 I     7.7 I     6.3 I     5.6 I    14.7 I     9.1 I      .7 I      .7 I    13.3
                    I       0 I     6.0 I    39.0 I    16.4 I    45.8 I    30.0 I     9.0 I     6.5 I    12.3 I    12.5 I    20.0 I
                   -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                  2 I       4 I      37 I       9 I      60 I       1 I       3 I      25 I      43 I      18 I       0 I       0 I     200
  SIDE YARD         I     2.0 I    18.5 I     4.5 I    30.0 I      .5 I     1.5 I    12.5 I    21.5 I     9.0 I       0 I       0 I    18.7
                    I    57.1 I    17.1 I     9.0 I    36.4 I     4.2 I    10.0 I    28.1 I    13.4 I    17.0 I       0 I       0 I
                   -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                  3 I       0 I       8 I      26 I      23 I       4 I       3 I      15 I       9 I      10 I       1 I       0 I      99
  BACK YARD         I       0 I     8.1 I    26.3 I    23.2 I     4.0 I     3.0 I    15.2 I     9.1 I    10.1 I     1.0 I       0 I     9.2
                    I       0 I     3.7 I    26.0 I    13.9 I    16.7 I    10.0 I    16.9 I     2.8 I     9.4 I    12.5 I       0 I
                   -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                  4 I       2 I      39 I       0 I       1 I       0 I       2 I       3 I       2 I      29 I       1 I       0 I      79
  FRONT PORCH       I     2.5 I    49.4 I       0 I     1.3 I       0 I     2.5 I     3.8 I     2.5 I    36.7 I     1.3 I       0 I     7.4
                    I    28.6 I    18.1 I       0 I      .6 I       0 I     6.7 I     3.4 I      .6 I    27.4 I    12.5 I       0 I
                   -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                  5 I       0 I       0 I       0 I       0 I       0 I       0 I       0 I       2 I       0 I       0 I       0 I       2
  BACK PORCH        I       0 I       0 I       0 I       0 I       0 I       0 I       0 I   100.0 I       0 I       0 I       0 I      .2
                    I       0 I       0 I       0 I       0 I       0 I       0 I       0 I      .6 I       0 I       0 I       0 I
                   -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                  6 I       0 I       2 I       0 I       0 I       1 I       0 I       0 I       3 I       6 I       0 I       2 I      14
  PRIVATE SIDEWALK  I       0 I    14.3 I       0 I       0 I     7.1 I       0 I       0 I    21.4 I    42.9 I       0 I    14.3 I     1.3
                    I       0 I      .9 I       0 I       0 I     4.2 I       0 I       0 I      .9 I     5.7 I       0 I    40.0 I
                   -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                  7 I       0 I       1 I       3 I       2 I       1 I       1 I       2 I       9 I       9 I       0 I       0 I      28
  PUBLIC SIDEWALK   I       0 I     3.6 I    10.7 I     7.1 I     3.6 I     3.6 I     7.1 I    32.1 I    32.1 I       0 I       0 I     2.6
                    I       0 I      .5 I     3.0 I     1.2 I     4.2 I     3.3 I     2.2 I     2.8 I     8.5 I       0 I       0 I
                   -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                  8 I       1 I      46 I       9 I      18 I       1 I       2 I      17 I     159 I       4 I       1 I       2 I     260
  STREET            I      .4 I    17.7 I     3.5 I     6.9 I      .4 I      .8 I     6.5 I    61.2 I     1.5 I      .4 I      .8 I    24.3
                    I    14.3 I    21.3 I     9.0 I    10.9 I     4.2 I     6.7 I    19.1 I    49.4 I     3.8 I    12.5 I    40.0 I
                   -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                  9 I       0 I      60 I      10 I      19 I       1 I       7 I      16 I      55 I      15 I       0 I       0 I     183
  APRON             I       0 I    32.8 I     5.5 I    10.4 I      .5 I     3.8 I     8.7 I    30.1 I     8.2 I       0 I       0 I    17.1
                    I       0 I    27.8 I    10.0 I    11.5 I     4.2 I    23.3 I    18.0 I    17.1 I    14.2 I       0 I       0 I
                   -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
                 10 I       0 I       2 I       0 I       0 I       0 I       0 I       0 I       1 I       0 I       0 I       0 I       3
  ALLEY             I       0 I    66.7 I       0 I       0 I       0 I       0 I       0 I    33.3 I       0 I       0 I       0 I      .3
                    I       0 I      .9 I       0 I       0 I       0 I       0 I       0 I      .3 I       0 I       0 I       0 I
                   -I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I---------I
             COLUMN         7       216       100       165        24        30        89       322       106         8         5     1072
              TOTAL        .7      20.1       9.3      15.4       2.2       2.8       8.3      30.0       9.9        .7        .5    100.0
(CONTINUED)
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* * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
   SETTING                                                             BY  BEHAVIOR
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * PAGE 2 OF  2

                     BEHAVIOR
              COUNT  I
            ROW PCT  IFORMAL I SOCIALIZ GAMES     WORK      SYMBOLIC MANIPULA LARGE MU MOVE THR OBSERVIN EATING     EMOTIONA   ROW
            COL PCT  INF GAT-E ING                           PLAY     TING     SCLE ACT OUGH SPA G                  L EXPRES  TOTAL
                     I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I      9 I     10 I     11 I
SETTING     ---------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  11 I      0 I      5 I      0 I     15 I      4 I      3 I      3 I     17 I      2 I      4 I      0 I     53
  PUBLIC OPEN SPAC   I      0 I    9.4 I      0 I   28.3 I    7.5 I    5.7 I    5.7 I   32.1 I    3.8 I    7.5 I      0 I    4.9
                     I      0 I    2.3 I      0 I    9.1 I   16.7 I   10.0 I    3.4 I    5.3 I    1.9 I   50.0 I      0 I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  12 I      0 I      3 I      4 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      7
  PLAY GROUND        I      0 I   42.9 I   57.1 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I     .7
                     I      0 I    1.4 I    4.0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
                  13 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      1 I      0 I      0 I      0 I      1
  ACROSS SETTINGS    I      0 I      0 I      0 I      0 I      0 I      0 I      0 I  100.0 I      0 I      0 I      0 I     .1
                     I      0 I      0 I      0 I      0 I      0 I      0 I      0 I     .3 I      0 I      0 I      0 I
                    -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
             COLUMN         7      216      100      165       24       30       89      322      106        8        5     1072
              TOTAL        .7     20.1      9.3     15.4      2.2      2.8      8.3     30.0      9.9       .7       .5    100.0
(CONTINUED)




RAW CHI SQUARE =   709.22628 WITH   120 DEGREES OF FREEDOM.  SIGNIFICANCE =       0
CRAMER'S V =   .25721
CONTINGENCY COEFFICIENT =   .63101
LAMBDA (ASYMMETRIC) =   .17488 WITH SETTING  DEPENDENT.          =   .13600 WITH BEHAVIOR DEPENDENT.
LAMBDA (SYMMETRIC) =   .15621
UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .14091 WITH SETTING  DEPENDENT.          =   .14824 WITH BEHAVIOR DEPENDENT.
UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .14448

NUMBER OF MISSING OBSERVATIONS =    13
```

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* * * * * * * * * * * * * * * * * *   C R O S S T A B U L A T I O N   O F   * * * * * * * * * * * * * * * * * *
   BEHAVIOR
                                             BY  PROP
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE 1  OF  2

                 PROP
          COUNT I
        ROW PCT IFIXED.SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC LARGE MU CLOTHING FOOD         ROW
        COL PCT IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS      TOYS     SCLE TOY                      TOTAL
                I      1 I      2 I      3 I      4 I      5 I      6 I      7 I      8 I     10 I     11 I     12 I
BEHAVIOR --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               1 I      0 I      0 I      4 I      0 I      1 I      1 I      0 I      0 I      1 I      0 I      0 I      7
FORMAL INF GAT-E I      0 I      0 I   57.1 I      0 I   14.3 I   14.3 I      0 I      0 I   14.3 I      0 I      0 I     .9
                 I      0 I      0 I    2.8 I      0 I    1.8 I   10.0 I      0 I      0 I     .4 I      0 I      0 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               2 I     41 I      2 I     65 I      1 I      4 I      0 I      2 I      0 I     32 I      0 I      0 I    147
SOCIALIZING      I   27.9 I    1.4 I   44.2 I     .7 I    2.7 I      0 I    1.4 I      0 I   21.8 I      0 I      0 I   18.5
                 I   25.8 I    2.7 I   45.5 I    4.5 I    7.3 I      0 I    3.5 I      0 I   14.3 I      0 I      0 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               3 I      0 I      8 I     10 I      0 I      3 I      0 I      1 I      0 I     72 I      0 I      0 I     94
GAMES            I      0 I    8.5 I   10.6 I      0 I    3.2 I      0 I    1.1 I      0 I   76.6 I      0 I      0 I   11.8
                 I      0 I   11.0 I    7.0 I      0 I    5.5 I      0 I    1.8 I      0 I   32.1 I      0 I      0 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               4 I     13 I     32 I     21 I      0 I     36 I      2 I     42 I      3 I      4 I     10 I      2 I    165
WORK             I    7.9 I   19.4 I   12.7 I      0 I   21.8 I    1.2 I   25.5 I    1.8 I    2.4 I    6.1 I    1.2 I   20.8
                 I    8.2 I   43.8 I   14.7 I      0 I   65.5 I   20.0 I   73.7 I   15.0 I    1.8 I   55.6 I   15.4 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               5 I      3 I      0 I      0 I      0 I      2 I      0 I      1 I     15 I      0 I      3 I      0 I     24
SYMBOLIC PLAY    I   12.5 I      0 I      0 I      0 I    8.3 I      0 I    4.2 I   62.5 I      0 I   12.5 I      0 I    3.0
                 I    1.9 I      0 I      0 I      0 I    3.6 I      0 I    1.8 I   75.0 I      0 I   16.7 I      0 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               6 I      0 I     19 I     10 I      0 I      1 I      0 I      0 I      0 I      0 I      0 I      0 I     30
MANIPULATING     I      0 I   63.3 I   33.3 I      0 I    3.3 I      0 I      0 I      0 I      0 I      0 I      0 I    3.8
                 I      0 I   26.0 I    7.0 I      0 I    1.8 I      0 I      0 I      0 I      0 I      0 I      0 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               7 I     24 I      4 I      6 I     19 I      4 I      0 I      3 I      0 I     20 I      2 I      0 I     82
LARGE MUSCLE ACT I   29.3 I    4.9 I    7.3 I   23.2 I    4.9 I      0 I    3.7 I      0 I   24.4 I    2.4 I      0 I   10.3
                 I   15.1 I    5.5 I    4.2 I   86.4 I    7.3 I      0 I    5.3 I      0 I    8.9 I   11.1 I      0 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               8 I     37 I      6 I     27 I      2 I      4 I      6 I      7 I      1 I     94 I      3 I      4 I    191
MOVE THROUGH SPA I   19.4 I    3.1 I   14.1 I    1.0 I    2.1 I    3.1 I    3.7 I     .5 I   49.2 I    1.6 I    2.1 I   24.1
                 I   23.3 I    8.2 I   18.9 I    9.1 I    7.3 I   60.0 I   12.3 I    5.0 I   42.0 I   16.7 I   30.8 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
               9 I     37 I      2 I      0 I      0 I      0 I      1 I      1 I      1 I      0 I      0 I      0 I     42
OBSERVING        I   88.1 I    4.8 I      0 I      0 I      0 I    2.4 I    2.4 I    2.4 I      0 I      0 I      0 I    5.3
                 I   23.3 I    2.7 I      0 I      0 I      0 I   10.0 I    1.8 I    5.0 I      0 I      0 I      0 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
              10 I      1 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      7 I      8
EATING           I   12.5 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I   87.5 I    1.0
                 I     .6 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I      0 I   53.8 I
                -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
          COLUMN      159      73      143       22       55       10       57       20      224       18       13      794
           TOTAL     20.0     9.2     18.0      2.8      6.9      1.3      7.2      2.5     28.2      2.3      1.6    100.0
(CONTINUED)
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TABLE 16

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 * * * * * * * * * * * * * * * * * *  C R O S S T A B U L A T I O N   O F  * * * * * * * * * * * * * * * * * *
   BEHAVIOR                                                    BY  PROP
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  PAGE  2 OF  2

              PROP
         COUNT  I
       ROW PCT  IFIXED,SE INANIMAT ANIMATE  PLAY EQU INCIDENT EDUCATIO ADULT TO SYMBOLIC LARGE MU CLOTHING FOOD        ROW
       COL PCT  IMI-FIXED E MATERI MATERIAL IPMENT   AL MATER NAL MATE OLS        TOYS     SCLE TOY                    TOTAL
                I      1  I     2  I     3  I     4  I     5  I     6  I     7  I     8  I    10  I    11  I    12  I
BEHAVIOR --------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
            11  I      3  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I     1  I     0  I     0  I       4
 EMOTIONAL EXPRES I   75.0  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I  25.0  I     0  I     0  I      .5
                I    1.9  I     0  I     0  I     0  I     0  I     0  I     0  I     0  I    .4  I     0  I     0  I
               -I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I--------I
        COLUMN      159       73      143       22       55       10       57       20      224       18       13      794
         TOTAL     20.0      9.2     18.0      2.8      6.9      1.3      7.2      2.5     28.2      2.3      1.6    100.0
(CONTINUED)




  RAW CHI SQUARE =  1639../3719 WITH   100 DEGREES OF FREEDOM.  SIGNIFICANCE =        0
  CRAMER'S V =    .45444
  CONTINGENCY COEFFICIENT =    .82082
  LAMBDA (ASYMMETRIC) =   .29187 WITH BEHAVIOR DEPENDENT.          =   .27719 WITH PROP     DEPENDENT.
  LAMBDA (SYMMETRIC) =   .28474
  UNCERTAINTY COEFFICIENT (ASYMMETRIC) =   .29519 WITH BEHAVIOR DEPENDENT.          =   .29322 WITH PROP     DEPENDENT.
  UNCERTAINTY COEFFICIENT (SYMMETRIC) =   .29420

  NUMBER OF MISSING OBSERVATIONS =   291
```

Spatial Occupation Patterns

In the rural site, the occupational movement methodology was utilized only during the spring and summer seasons. The sparsity of population and extreme cold temperatures precluded any data collection during these two seasonal time periods. Even during the warm spring months, there were time periods during which no children were sighted outdoors.

Considering the richness of the outdoor environment in the rural site including a stream, groves of trees, wide open fields, fences, etc., one would expect erratic varied occupational patterns and movement.

During both seasons and time periods, the children of the rural site were observed using the roads or public pathways. Children used these settings primarily to circulate around the community. Children were observed riding bicycles as well as horses. Some observations included the herding of cattle from one pasture to another. Other observations included children in carriages being pushed down the street. It appears that the public roads and pathways in the rural site provide dual functions. For people, the functions are similar to those provided by public or private sidewalks in the urban areas. For the caring of animals, the functions are those of providing a predetermined route of movement from one place to another. Children, it appears, are sensitive to the difference between public thoroughfares and private property. In this rural setting, the concept of trespassing has received wide publicity among the community residents. During the past few years they have been embroiled in a controversy regarding a land grant, the fencing off of traditionally public land, and shootings of trespassers.

To further support this, children were rarely observed in the fenced pastures alone. Usually, at least one adult was present and work or a task was being performed. Fenced fields appeared to be off limits for any play activities.

In the early spring data collection phase, children were observed in activities around the tree groves, while during the early summer data collection phase, children were observed in the stream. Since the grove of trees are located on both banks of the stream and there was such a distinct use of environmental features, one could infer that rural children are particularly sensitive to seasonal differences as they relate to the outdoor ecology.

One interesting setting which attracted children was the former playground of an abandoned school house. Despite the decrepit condition of the area, children still congregated in the area. Also, the community church which was abandoned, except during religious services, provided children with a semi-public place in which they could play.

Interestingly, children not active in the streets were usually active around the house or near buildings. Children were heavily concentrated both in the spring and summer around areas that appeared to be semi-enclosed or protected. For example, several children were observed playing in side yards of homes, protected by the house and, in a secondary setting, in the perspective of a casual passerby. Or several observations of children were recorded where children were engaged in activities virtually enclosed by either a "U" shaped house or a cluster of buildings situated near the house.

From a visual inspection of the maps, it is clear that one area attracts the most amount of movement and children. This area does not differ significantly in characteristics from the rest of the rural site, except one: it is the most densely occupied. Since accurate population figures could not be obtained, we assume that due to the denser occupation this implies a higher density of child population, thereby, accounting for the popularity of this particular area.

It is interesting to note here that neither the post office nor the local store attracted children or generated any significant amount of movement either to or from these locales.

In summary, the rural site children's occupational and movement patterns indicate that they use private areas around the house for play-type activities usually protected either from the elements or casual view. Additionally, abandoned buildings provide a similar setting as the home areas in terms of education and protection, but do not include the watchful eyes of supervising individuals in occupied settings.

Fenced areas are respected as private property. It appeared these wide open spaces were not used for purposes of short-cutting distance to be travelled, but instead, this setting was used exclusively for work.

The public road and pathways were perceived to be the most versatile of the settings. Since these areas were in the public domain, both work and leisure activity could be performed without violating any setting-specific activity social codes.

Discussion and Conclusions

Due to the almost exclusive Chicano population in the rural site, one may infer some characteristic cultural aspects from these data. First, one must consider that the nature of the rural site is such that families that have continued to live there have made the choice to remain isolated and practice cultural traditions not common in the larger changing communities in other parts of Colorado. It is not surprising, therefore, that our data indicate close adherence to traditional cultural norms. In housing patterns, for example, nuclear families are still a way of life as evidenced by the clustering of family residences on one tract of land. Secondly, some of the social scientists' conception of the "macho-hembra" sex role stereotypes did not always materialize. A sense of a closely-knit community could also be inferred by the settings children were allowed to use in their outdoor activity. Probably one of the most salient findings from our data occur on the age grouping variables.

Subject Population: The median group age was 6.9 years, with an almost equal proportion of girls and boys. Most studies on children outdoors assume an equal male-female population, but have rarely recorded such. While the Aiello et al. study found the group mean size to be 1.8, our children's mean group size was 3.1. In the same study, almost one-half of their subjects were engaged in solitary activities, only 18.2% of the rural site children were alone. Of this number, a majority of solitary activities were engaged in by the older (ten through twelve year-olds) children.

These findings seem to indicate that rural site Chicano children naturally are involved in a higher degree of group activities than other children. These findings seem to agree with the literature which indicates Chicano children to be group focused.

Time of Day Comparisons: As originally hypothesized, time of day had a noticeable effect on the observations. We felt that younger children would be outdoors with greater frequency in the early afternoon since the older children would be attending school. Our data confirms this. Furthermore, since many of the variables are associated with age differential, we also obtained time of day differences for use of space, activity, and supervision variables.

Sex Differences: Females appear to use space closer to building structures, and males prefer the street and apron area, in concurrence with the Saegert and Hart findings. Although only slight differences occurred in behavioral activity, girls socialized more than boys. In turn, boys worked and moved through space more than girls. Mixed sex groups, however, preferred socializing and games.

Females use less props, although only one-fourth of the children were observed with no props. The most prominent prop for females are fixed/semi-fixed materials, while large muscle toys are most popular with boys. This would seem to indicate that girls are not as mobile as boys.

Age Differences: The youngest age group (three through five year-olds) are the most likely to be supervised and in mixed sex groupings. As groups increase with age, there tends to be more direct adult supervision and single sex groupings for males.

These findings would seem to indicate that younger aged children are given a wider range of opportunities for interacting and experimenting socially with the physical environment. Older children, since they receive more direct supervision, could be characterized as receiving adult guidance and instruction in preparation for increased responsibilities and socially acceptable behavior.

Supervision: Adult males and females demonstrated an equal propensity to be engaged with children in their activities. This would seem to indicate that Chicano parents take an active shared responsibility in the rearing of their children. Additionally, it would appear that girls and boys have a relatively ample opportunity to learn sex specific behavior from either parent. Typically, most adult supervision occurs in the areas surrounding the homes, although as previously noted, children engaged in work activities in the field are usually supervised by adult males.

Interestingly, the least amount of supervision was exhibited for children playing in the street or apron. These were primarily older males. The lack of supervision in what could be considered relatively dangerous settings, however, can be understood in relation to the rural site. First, it is small with relatively little traffic. Second, most of the inhabitants are well known to each other and probably provide a sense of security to parents knowing that, in a sense, the community is looking out for the children. An alternative explanation could be that rural site parents also have confidence in their children's ability to safely play in such public areas.

The adults prefer to supervise children around the house, either front yard or side yard. Also, when children are dealing with animate materials such as farm animals, parents tend to supervise. This finding could be interpreted as potential harm to another living thing or caused by another living thing requires a more watchful eye regardless of age.

Summary and Conclusions: Our findings indicate that rural site Chicanos have maintained some of the cultural customs and traditions, but not necessarily some of the stereotypes attributed to the Chicano people. There exists a slight difference of activities based on child sex. Younger children are supervised more, yet given greater flexibility in non-adult interference. Chicano children are active, engage in physical activities, and interact with the physical surrounding. In spite of the abundance of props in the rural environment, Chicano rural children congregate in relatively large groups and socialize to a greater extent than would be expected.

From these observations, we suggest that we have only begun to scratch the surface on the true nature of the rural Chicano child as he is being enculturated by his environment. The implications for educational development and planning are explicit.

Rural children are not passive. They engage in sufficient large muscle activities to warrant a reviewing of the degree of emphasis in motor development activities, especially in the early education level and the passive child stereotype.

Male and female sex role models are equally evident in rural site activities, but the balance is distorted in the public school settings, where female teachers predominate in the early levels.

The environment of the rural Chicano child is rich and varied. It is being used. Now, the responsibility lies in the school incorporating these activities and building on these experiences to continue in the natural evolvement of the Chicano rural child.

Finally, there exists a distinction between the developmental processes of the Chicano rural child and the urban child. Therefore, great care should be exercised in incorporating urban educational materials, curriculum, or teaching strategies on rural Chicano children, for this would create an even greater disparity between what the Chicano child has experienced in the outdoor environment and the school setting.

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APPENDIX A:

Behavioral Observation Methodology

APPENDIX A:

Behavioral Observation Methodology

Coding Categories

1. Observation Data:

Name of Observer--------------------------------------1
Name of Mapper--2
Observation Site--------------------------------------3
  Housing Project-----1
  Urban Barrio--------2
  Rural---------------3
Date (month, day, year)-----------------------------4-9
Time--10-13
Weather---14

2. Group Data:

Zone--15-16
Group Size (total children + adults)--------------17-18
Social Configuration, Age (of group)-----------------19
  One Child Alone-------1
  Children Same Age-----2
  Children Mixed Age----3
  One Child + One Adult-4
  Children + Adults-----5

Social Configuration, Sex (of group)------------------20

Male(s) Only---------------1

Female(s) Only-------------2

Both Male(s) + Female(s)---3

Social Configuration, Ethnicity (of group)------------21

All Chicano--------------1

Mixed Ethnic-------------2

All Non-Chicano----------3

Supervision (of child or group)-----------------------22

No Supervision-----------0

Direct Adult Supervision--1

Indirect Adult
Supervision----------2

Child Supervision---------3

Adult Sex---23

(To be coded only if social configuration,
age has been coded "4" or "5".)

Male(s) Only-------------1

Female(s) Only-----------2

Both Male(s) + Female(s)--3

3. Individual Data:

Child Sex---24

Male-----1

Female---2

Child Age 25-26

Record actual age of child
between 3 and 12 years

Environmental Setting - Location Within Site---------27-28

Front Yard-------------------1

Side Yard--------------------2

Back Yard--------------------3

Front Porch------------------4

Back Porch-------------------5

Private Sidewalk--------------6
(within private yard)

Public Sidewalk--------------7

Street-----------------------8

Apron Area (between
sidewalk & street curb)-----9

Alley-----------------------10

Public Open Space-----------11

Playground Area-------------12

Across Settings-------------13

Other SPECIFY -------------14

Environmental Props - Objects Being Manipulated------29-30

Fixed/semi-fixed Features-----------1
door, gate, fence, car,
motorbike, bench

Environmental Materials I-----------2
Inanimate: grass, tree,
tree limbs, sand, water,
rocks

Environmental Materials II-----------3
    Animate: bugs, humans,
    dogs, cats

Play Equipment (fixed)---------------4
    swings, slides, teeter-
    totter-go-round, jungle-gym

Incidental Materials-----------------5
    string, rope, comb,
    can-opener, containers

Educational Materials----------------6
    books, crayons, pencils,
    notebooks, school paper,
    newspaper

Adult Tools--------------------------7
    hammer, saw, pliers,
    clothes' pins, knives

Toys I (symbolic)--------------------8
    dolls, guns, or any toy
    that looks like a real
    thing

Toys II (small muscle)---------------9
    marbles, blocks, jacks

Toys III (large muscle)-------------10
    bikes, bats, balls, racket,
    frisbee, wagons, trikes

Clothing----------------------------11

Food--------------------------------12

Mixed Categories--------------------13
    (Use *only* when necessary)

Description of Activity - *What is the Child Doing?*--31-32

Formal Information Gathering/
Expression---------------------------------1
    reading, writing, drawing,
    coloring, explaining

Socialization----------------------------2
conversing, interacting,
holding hands, hugging,
being consoled

Games (with rules either made up
or understood)-------------------------3
marbles, hop-scotch,
ball games

Work (imitating of adult role)-----------4
babysitting, carrying groceries,
emptying trash, hanging clothes,
sweeping, raking

Symbolic Play----------------------------5
pretending, playing at being
something - comadres, cowboys,
monsters

Manipulating Materials-------------------6
playing with dirt, mud, water,
grass, leaves, snow, cats, dogs

Large Muscle Activity--------------------7
climbing, jumping, swinging,
lifting, throwing, wrestling

Moving Through Space---------------------8
running, walking, riding,
chasing

Observing--------------------------------9

Eating or Drinking----------------------10

Emotional Expression--------------------11
laughing, crying, yelling

Other SPECIFY ------------------------12
(use only when necessary)

APPENDIX B:

Locational Mapping Methodology

APPENDIX B:

Locational Mapping Methodology

Description

This particular methodology was developed to determine the spatial occupation and movement patterns of children in their outdoor environment. From collecting this data the research effort hoped to establish the landmarks, pathways, and neighborhood boundaries determined by children's occupation and movement.

For this data collection phase, the primary processes were in securing accurate representation of the neighborhoods for plotting of data so that information collected could be visually associated with environmental features of the neighborhoods.

The process employed for the rural area consisted of studying an aerial photograph and transferring the land uses and environmental features into a reconstructed map. This information consisted of houses, open fields, rivers, groves, wood piles, etc. Once this was finished, a drive through the neighborhood was taken in order to verify environmental features. At this time, numerous changes had to be made in order to update the information. Such things as abandoned houses were found where houses were shown on the aerial photograph, or house trailers standing where open land was shown. After all existing features were plotted and verified, then a route was determined through the area. This large map was then divided into zones, and each zone reproduced on a standard size paper for coding procedure purposes.

The urban area processes were somewhat similar to that of the rural area. Aerial photographs were secured from the planner's office. Then, a walk through the single-family/multi-family residential areas was instituted for verification.

At this time, environmental features were checked in order to verify that a house existed where one was shown, and also to verify property lines and fences. During this same time, semi-fixed items were plotted on the map which could be utilized by children for props. These included swing sets or abandoned cars and trucks. Once environmental features were verified, a prescribed route was develped. The zones for the urban single-family neighborhood were: a square city-block was divided into three zones. The first zone would be the alley-way, and then the next zone would be from the alley-way east to the corner, turn north to the next corner, turn west until the alley where the zone originally started. Crossing the alley-way and continuing west would start the third zone. The observer would walk west until the corner, turn south until the next corner, then east until the alley where zone two began. Through this route one was able to observe the greatest variety of environmental settings within a short time span.

The third research site was the easiest to plot and determine the route. This site was the housing project. A zone was determined according to the visible area around one dwelling unit. The observer would start at the front area of the building and walk until that building ended, and continue to the second unit around the building to the side-yard area where the zone ended. The observer would cover two such building areas at one time sequence with each being a different zone. The backyard area would begin another zone. The observer would walk through this area covering both sides of the backyard area. The one side being the back area of where (s)he started, and the other being the back area of where (s)he was going.

Once route and zone breakdown were determined, the question of how to distinguish between females and males, children moving through space or merely being stationary, and whether there were adults present or not was addressed.

The procedure for recording a non-mobile person was to enter a dot (·) on the map as near to the actual location of the child as possible. Beside the dot, the age of the child was entered. If an adult was either interacting with or supervising one or more children, a dot was entered for the adult with the letter "A" next to it as the age indicator. If the child or adult was a male then a circle was placed around the age recorded for that person. If a person was moving through space, an arrow (<) indicating direction of movement was used instead of the dot.

Training

All mappers were trained to complete the following tasks: they were to identify children's age, sex, location, and activity (moving through space or stationary), and plot this information onto the maps with which they were provided.

Training consisted of three phases. Phase I was to sensitize the mappers to visual cues indicative of a child's sex and age. These variables included clothing items, physical appearance, and activities engaged in. Most children observed were easily recognizable as either male or female. Phase II of the training consisted of orientation to the research site, route to be taken, and familiarization with the simultaneous walking and encoding procedure. This phase provided coders with knowledte of the research site and allowed residents an opportunity to observe the coders and become acclimated with their presence. Phase III consisted of practice coding and calibrating with the trainer. By coding and discussing differences and similarities of codings, trainer and trainee established a baseline for calibration.

APPENDIX C:

Social Interaction Observation Methodology

APPENDIX C:

Social Interaction Observation Methodology

Social Interaction Coding Instructions

1. Check your tape recorder before beginning observations. Record for about ten seconds, rewind, and play back. Adjust volume level, if needed and keep an ear open for slow playback which indicates low batteries.

2. Record the neighborhood site, name.

3. Record the month, day.

4. Record the weather in descriptive terms.

5. Walk around until you locate a group and find an unobtrusive spot from which you can observe all interactions.

6. Record the setting.

7. Record characteristics of the group:
   - a) Group size (all groups must include a minimum of two children, ages three to twelve - NO ADULTS, NO INFANTS - and a maximum of five).
   - b) Social configuration:
     1. according to age
     2. according to sex

8. Record characteristics of individual children:
   1. Sex
   2. Age
   3. Ethnicity
   4. Indicate subject child with identifier
   5. Nature of child's activities

Social Interaction Coding Instruction (Con't.)

9. Record time, begin observation:
   - a) Record subject child's:
     1. activity
     2. social interaction
   - b) Record subsequent response of other children as:
     1. responding, or
     2. initiating;
     3. activity;
     4. social interaction

10. Repeat 9-a.-b. inclusive for a five-minute time segment.

Encoding Data

Immediately after your observation session is completed, go to a quiet place and encode your data into the Social Interaction Coding Sheet.

A. Identifying Data

1. Observer:
   Enter the observer number you have been assigned.

2. Site:
   Enter the site number:
   1. Housing Project
   2. Urban Barrio
   3. Rural

3. Month:
   Enter the number of the month using two digits, starting with 01 for January, to 12 for December, each month numbered consecutively.

4. Date:
   Enter the number of the date using two digits: 01, 02, etc.

5. Year:
   Enter only the last two digits of the year: 76 for 1976, and 77 for 1977.

6. Time:
   Enter the time using a 2400 base: A.M. time is 0100 to 1200; P.M. time is 1300 to 2400.

Encoding Data (Con't.)

A. Identifying Data (Con't.)

7. Weather:

Enter the number that best corresponds to your weather description:

Snowing/Cold	1
Cloudy/Cold	2
Clear/Cold/Windy	3
Raining/Warm	4
Cloudy/Warm	5
Clear/Warm	6
Cloudy/Hot	7
Partly Cloudy/Hot	8
Sunny/Hot	9

B. Group Location

1. Environmental Settings:

Enter the number that corresponds to the environmental setting category:

Front Yard	1
Side Yard	2
Back Yard	3
Front Porch	4
Back Porch	5
Private Sidewalk	6
Public Sidewalk	7
Street	8
Apron	9
Alley	10
Public Open Space	11
Playground Area	12
Across Settings	13
Other SPECIFY	14

C. Group Data

1. Group Size:

Enter the total number of children involved in the group.

Encoding Data (Con't.)

C. Group Data (Con't.)

2. Social Configuration Age:

Enter the number that corresponds with your description:

One Child Alone	1
Children Same Age	2
Children Mixed Age	3

3. Social Configuration Sex (group):

Enter the number that corresponds with your description:

Male(s) Only	1
Female(s) Only	2
Both Males and Females	3

4. Social Configuration Ethnicity:

Enter the number that corresponds with your description:

All Chicano	1
Mixed Ethnic	2
All Non-Chicano	3

5. Social Language (per interaction):

Enter the number that corresponds with your description:

All Spanish	1
Mixed	2
All English	3

D. Individual Data

1. Child Role:

Enter the number that corresponds to child role. (Remember! Subject child remains constant, but other children can be either responding or initiating, based in the interaction occurring):

Encoding Data (Con't.)

D. Individual Data (Con't.)

Subject	1
Initiate	2
Respondent	3

2. Child Age:

Enter the perceived age in two digits: 03 is three years old, etc.

3. Child Sex:

Enter the code corresponding to the child's sex:

Male	1
Female	2

4. Child Size:

Enter child's size (in relation to tallest member of the group). (Remember that this will change when the group size is altered.):

Shortest	1
Shorter	2
All Same	3
Taller	4
Tallest	5

5. Ethnicity

Enter the number that corresponds with your description:

Chicano	1
Mixed Ethnic	2

E. Behavior Information

1. In the wide column, write a simple descriptive phrase of the child's behavioral activity.

Encoding Data (Con't.)

E. Behavior Information (Con't.)

2. In the following two columns, encode the number that best fits the behavior, according to the following:

Categories	Code	Examples
Formal information-gathering expression	1	Listening to radio, reading, coloring, drawing
Socialization	2	Only conversing with other individuals
Games	3	Games with formal or informal rules such as playing marbles, football, hop scotch, jump rope, throwing knives, follow the leader
Work	4	Sweeping, carrying groceries, emptying trash, hanging clothes, baby-sitting
Symbolic Play	5	Role playing such as "shooting" with gun, playing house, cowboys and indians, Batman, The Fonz, spacemen
Manipulating materials	6	Playing with dirt, grass, water, branches, examining toy parts, "try and see"
Large muscle activity	7	Climbing, wrestling, swinging, chasing, pushing merry-go-round, sliding
Moving through space	8	Walking, running, riding bike with a destination in mind
Observing	9	Passive receptive observation of others' activities

Encoding Data (Con't.)

E. Behavior Information (Con't.)

Categories	Code	Examples
Eating	10	Munching, chewing, licking
Other: Specify	11	Other categories to be used only when behavior does not apply to any of the above categories

F. Social Interaction

1. In the wide column, write a simple description of the child's social behavior.

2. In the following two columns, encode the number that best fits the social behavior category according to the following:

Categories	Code	Examples
Asking assistance	1	Verbally asking for help, "help me"; or non-verbally asking, such as struggling with something and looking in the direction of another
Offering assistance	2	Verbally offering to help, walking over and helping someone who is having trouble
Receiving assistance	3	Letting someone help you, saying "yes" if someone asks if you want assistance
Refusing assistance	4	Saying "no" to offers of assistance, pushing someone away if they offer help
Calling attention to "own" behavior	5	Doing something and repeatedly glancing at others - being active when others are sitting can often be a way of attracting attention. One could

Encoding Data (Con't.)

F. Social Interaction (Con't.)

Categories	Code	Examples
		directly say "look at me" or "watch"
Calling attention to "others" behavior	6	Pointing at another child, telling others to look, staring at others might be so considered if one reacted - eg. laughing
Paying attention to "others" behavior	7	Listening to them if they are talking, watching them if they are doing something
Praising	8	Verbally praising, applauding
Asking permission	9	Asking for O.K., telling about going to do something but waiting for approval to do it
Submitting to directions	10	Doing as told, cooperating, stops action after warning
Asking questions	11	Asking questions
Telling people what to do	12	Physically or verbally telling someone what to do - eg. pushing, pulling, telling
Admonishing	13	Warning, punishing verbally or physically for something done wrong
Teaching/modeling	14	Telling, describing, showing someone how to do something, telling them how, doing something that others initiate - depends on actions of others
Agreeing	15	Nodding of head, saying "O.K.", yes

Encoding Data (Con't.)

F. Social Interaction (Con't.)

Categories	Code	Examples
Sharing/showing	16	Offering one's possessions, showing of one's possessions, letting someone take one's possessions, letting someone else use them at the same time
Asserting ownership	17	"This is mine", taking something back, not letting someone share or borrow
Agression	18	Fighting, hostile yelling, throwing something at someone, malicious behavior, pushing non-playfully
Teasing	19	Verbal or physical/non-hostile, roughhousing, making fun of someone
Withdrawing from group	20	Leave physically or psychologically - eg. if upset
Joining group	21	Join or rejoin group, re-start interaction after withdrawal
Asserting self	22	Lead, dominate, do something just to show you can, getting own way
Refusing	23	Saying "no", resisting
Ignoring	24	Not paying attention to activities or actions directed at you
Imitating	25	Imitating actions of another, doing the same as another, (not imitating if helping)

Encoding Data (Con't.)

F. Social Interaction (Con't.)

Categories	Code	Examples
Role playing	26	The implication of the behavior is that belonging to a socially established role, such as playing house, gun fights, etc.
Overt emotional expression	27	Loving, crying, touching, kissing; any way of communicating feeling as the primary purpose, eg. comforting a baby
Empathy	28	Being understanding of others' situations could be comforting in the case of other children
Talking-not understood	29	Whispers, baby-talk, not being close enough to hear
Talking to no one in particular	30	Talking to self, thinking out loud
No interaction	99	Action may be taking place, but not with other children